



EGS PILLAY 30
ENGINEERING COLLEGE, NAGAPATTINAM
(AUTONOMOUS)



GENZINE'25

Innovate | Inspire | Implement



**“Empowering
Innovation,
Enriching Minds”**

Department of Computer Science and Engineering

Let this magazine be a window into the vibrant spirit of our CSE community
— where imagination meets intelligence, and learning never stops.



EGS PILLAY

ENGINEERING COLLEGE, NAGAPATTINAM
(AUTONOMOUS)



Chevalier Dr. G. S. PILLAY

FOUNDER OF E G S PILLAY GROUP OF INSTITUTION

Success today requires more than mastering textbooks — it calls for creativity, adaptability, and vision. At EGSPEC, we believe in shaping future-ready professionals by blending strong academic foundations by embedding experiential projects, interdisciplinary exposure, and industry-relevant training into our programs. Thus, our graduates emerge not just career-ready but future-ready and take on the future as leaders, innovators, and changemakers — positioned to lead and inspire.”

“ The soul that lived for this institution “





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ENGINEERING COLLEGE, NAGAPATTINAM
(AUTONOMOUS)



Smt. S. Jothimani Amma G.S.Pillay

CHAIRMAN OF E.G.S PILLAY GROUP OF INSTITUTIONS

Students today are competing in a rapidly changing world. Simply covering the curriculum alone is not enough. At EGSPEC, we equip our students with both a first-rate education and the necessary skill sets to ensure that they stand out in today's world.

"Education for livelihood alone will never make our life full and complete. Our educational system needs to give equal importance to the intellect and the heart."





E.G.S PILLAY
ENGINEERING COLLEGE, NAGAPATTINAM
(AUTONOMOUS)



Shri. S. Paramesvaran

OUR BELOVED ADVISOR OF
E.G.S PILLAY GROUP OF INSTITUTIONS

“

“Every step you take in
learning today shapes
the leader you’ll
become tomorrow.”

”



I take pride in the growth and achievements of EGSPEC and its students. We nurture young minds with values like integrity, innovation, and social responsibility. Every initiative reflects our dedication to shaping well-rounded professionals ready for the world.



MR.S.SENTHIL KUMAR
Secretary

“ I ensure smooth operations and open communication within the college. My mission is to support students and faculty, creating an environment where everyone can thrive.”

“ I assist in bridging communication and collaboration across our college community. My focus is on supporting initiatives that enhance student engagement and academic success.”



MR.S.SANKAR GANESH
Joint Secretary



DR.M.CHINNADURAI
Principal

“ I believe in leading with humility and openness. My goal is to inspire creativity and growth in every student. Together, we build a supportive community focused on learning and innovation.”

Dr. R. Manivannan

EGS Pillay Engineering College (Autonomous)

Mentoring the
Next Generation
of Technocrats.

CSE

Head of the Department

OUR HOD'S MESSAGE

Education is not just about learning facts, but about training the mind to think and innovate. It inspires curiosity, creativity, and problem-solving beyond textbooks. True learning empowers individuals to shape ideas into meaningful change.



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E G S PILLAY
ENGINEERING COLLEGE, NAGAPATTINAM
(AUTONOMOUS)



1

Vision & Mission

E G S PILLAY ENGINEERING COLLEGE

Our Vision

Envisioned to transform our institution into a
"Global Centre of Academic Excellence"

Our Mission

- To provide world-class education to the students and to bring out their inherent talents.
- To establish state-of-the-art facilities and resources required to achieve excellence in teaching-learning and supplementary processes.
- To recruit competent faculty and staff and to provide opportunities to upgrade their knowledge and skills.
- To have regular interaction with the industries in the area of R&D and offer consultancy, training, and testing services.
- To establish centers of excellence in the emerging areas of research.
- To offer continuing education and non-formal vocational education programs that are beneficial to society.



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Program Educational Outcomes (PEO)

- To develop strong knowledge and skills in the domain of Computer Science and Engineering for leading a successful career in industries or entrepreneurial endeavours.
- To prepare and assist the graduates to be successful in higher education and research activities in the theory and application of computing related engineering fields.
- To train the graduates to learn and adapt to the ever-changing world of technology.

Program Specific Outcomes (PSO)

- The ability to apply software engineering principles and practices to design and develop software systems that meet the automation needs of industrial and societal problems.
- The ability to apply their technical skills and knowledge gained in the fields such as Artificial Intelligence, Data Science, Cloud Computing, Social Network Analysis and Mobile Application development.



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Program Outcomes

Engineering Knowledge:

- Apply knowledge of mathematics, Natural science, computing, engineering fundamentals and an engineering specialization as specified in WK1 to WK4 respectively to develop to the solution of complex engineering problems.

Problem Analysis:

- Identify, formulate, review research literature and analyze complex engineering problems reaching substantiated conclusions with consideration for sustainable development.

Design/Development of Solutions:

- Design creative solutions for complex engineering problems and design/develop the systems/components/processes to meet identified needs with consideration for the public health and safety, whole-life cost, net zero carbon, culture, society and environment as required.

Conduct Investigations of Complex Problems:

- Conduct investigations of complex engineering problems using research-based knowledge including design of experiments, modelling, analysis & interpretation of data to provide valid conclusions.



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Engineering Tool Usage:

Create, select and apply appropriate techniques, resources and modern engineering & IT tools, including prediction and modelling recognizing their limitations to solve complex engineering problems.

The Engineer and The World:

Analyze and evaluate societal and environmental aspects while solving complex engineering problems for its impact on sustainability with reference to economy, health, safety, legal framework, culture and environment.

Ethics:

Apply ethical principles and commit to professional ethics, human values, diversity and inclusion; adhere to national & international laws.

Individual and Collaborative Team work:

Function effectively as an individual, and as a member or leader in diverse/multidisciplinary teams.

Communication:

Communicate effectively and inclusively within the engineering community and society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations considering cultural, language, and learning differences



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Project Management and Finance:

Apply knowledge and understanding of engineering management principles and economic decision-making and apply these to one's own work, as a member and leader in a team, and to manage projects and in multidisciplinary environments.

Life-Long Learning:

Recognize the need for, and have the preparation and ability for:

- i) Independent and life-long learning .
- ii) Adaptability to new and emerging technologies and
- iii) Critical thinking in the broadest context of technological change.





2

ABOUT CSE DEPARTMENT

The Department of Computer Science and Engineering at Edayathangudy G.S. Pillay Engineering College, established in 1995, aims to meet the growing demand for skilled computer engineers in various sectors. Offering UG, PG, and PhD programs, **the department achieved Permanent Affiliation from Anna University and NBA Tier-1 accreditation.**

It has modern laboratories, experienced faculty, and active research initiatives. Through the Computer Engineers Association (CEA), students participate in conferences, workshops, and national-level competitions.

The department also conducts industry-oriented training, coding skill programs, and social awareness drives, fostering academic excellence, innovation, and holistic development among aspiring computer professionals.



OUR FACULTY MESSAGE

03

ABOUT OUR FACULTY MESSAGE

The faculty members of our college are the guiding pillars behind every student's success and achievement.

Dedication, mentorship, and continuous encouragement help shape young minds into confident and capable professionals. Through this section, "Our Faculty Message," we bring forward the voices of our esteemed professors who inspire, motivate, and lead by example. This space highlights their valuable thoughts and reflections on the accomplishments of our students. It expresses their pride in witnessing how each student transforms their learning into meaningful achievements in academics, research, internships, innovation, and beyond. The faculty's messages not only celebrate success but also remind students that perseverance, discipline, and curiosity are the true keys to excellence.



DR.M.CHINNADURAI
Principal

“Teaching isn’t just a profession; it’s a lifelong mission. It’s about building minds, not just covering syllabus. Each lesson carries the power to change a life. We don’t just teach — we shape the future.”

“We don’t just deliver lessons — we build legacies. A good teacher leaves behind than just notes. We imprint values, curiosity, and purpose in young minds.”



DR.M.PRIYA
Professor



DR.N.MURALI
Professor

“True success isn’t in titles or degrees. It lies in the lives we’ve helped transform. A teacher’s worth is seen in the success of their students. Our impact echoes long after the final bell rings.”

“Teaching is not just about giving answers. It’s about showing students how to think. When we teach them to question, we give them power.that’s when real learning begins.”



DR.R.MANIVANNAN
Professor



DR.P.ANANDRAJ
Associate Professor

“Every lecture is a spark of possibility. What begins as a topic can turn into a dream. We ignite thinking, creativity, and growth. And that spark lights their way forward.”

“We teach subjects, but we also teach strength. In our classrooms, character is as important as curriculum. we shape individuals, not just intellect.”



DR.A.EMMANUEL PEO MARIADAS
Associate Professor



DR.S.SUBASHREE
Associate Professor

“Each student has a unique story to tell. We are privileged to help write their chapters. Our lessons may end, but our influence lives on. We walk with them in every step they take.”

“Teaching is the most powerful investment in the future. we don't just prepare students for exams —we prepare them for life. To care deeply is to teach meaningfully.”



DR.J.NOORUL AMEEN
Assistant Professor



DR.A.BASKAR
Assistant Professor

“Guiding others is our greatest purpose. When students grow, so do we. In every achievement of theirs, we find joy. Teaching is a cycle of shared growth.”

“Students move forward, but our words stay behind. They live in their choices, thoughts, and dreams. We may step back, but we never truly leave. Our voice becomes part of their journey.”



MRS.K.PRADEEPA
Assistant Professor



MRS.B.RANJANI
Assistant Professor

“A classroom isn't defined by four walls. It lives in conversations, questions, and curiosity. We are all learners, always evolving. As much as we teach, we learn too.”

“Education is about more than textbooks. It's about sparking ambition and belief. We grow minds, but we also grow dreams. That's the real art of teaching.”



MR.N.KANNAN
Assistant Professor



MRS.E.SARANYA
Assistant Professor

“Every question asked is a leap forward. Every answer is a doorway to new ideas. We nurture the habit of curiosity. Because curiosity builds leaders.”

“The true measure of a teacher isn't what they know. It's what they help others discover. Our pride lies in student growth, not personal gain. That's the joy of the profession.”



DR.V.R.SUGUMARAN
Assistant Professor



DR.G.PUSHPA
Assistant Professor

“Between chalkboards and challenges, we find purpose. Every lesson is a chance to change a life. Amidst pressure and deadlines, there's deep meaning. We teach because we believe in transformation.”

“We teach today, knowing it will shape tomorrow. The seeds we sow now bloom in the future. This silent influence is our greatest contribution. That's the quiet, lasting power of education.”



MRS.R.YASOTHA
Assistant Professor



MS.B.VINOTHINI
Assistant Professor

“**B**ehind every confident student is someone who believed in them. Often, it’s a teacher who saw their light early. We believe first, so they learn to believe in themselves. And that belief can change everything.”

“**G**ood teaching speaks to the mind. Great teaching reaches the heart. We strive to connect beyond facts. Because real education is human.”



MS.M.KALAIVANI
Assistant Professor



MRS.J.AISHA NELOFER
Assistant Professor

“**W**e walk beside our students in silence. Offering support, belief, and steady direction. Our role may not always be visible. But its impact is lifelong.”

“**T**extbooks teach information; teachers teach values. When lessons fade, integrity remains. That’s the essence of meaningful education. And the legacy we aim to leave behind.”



MRS.G.NITHYA BHARATHI
Assistant Professor



MRS.T.PONVARTHINI
Assistant Professor

“Exams come and go, but learning lasts forever. What students carry isn't just notes — it's insight. That's the quiet gift of every class. We shape minds for a lifetime.”

“A teacher opens both minds and hearts. We guide thinking and nurture feeling. That dual power makes teaching timeless. And its value, immeasurable.”



MR.V.MANIKANDAPRABHU
Assistant Professor



MRS.L.MOGANAPRIYA
Assistant Professor

“One spark can light a thousand dreams. A teacher holds that first spark. We might not see the flame, But we trust it will burn bright someday.”

“We never teach for praise or applause. Our reward is in seeing our students thrive. Every small success of theirs is our victory. That's the beauty of our work.”



MS.D.DIVYA
Assistant Professor

LETTER FROM CHIEF EDITOR

Mrs. J. Aisha Nelofer-Assistant Professor/CSE

Head – Magazine Editorial Team

Department of Computer Science and Engineering

EGS Pillay Engineering College



Across this wonderful journey of creating our department's symposium magazine, it gives me immense pride to pen down these words as the Chief Editor. Every page in this publication is a blend of creativity, dedication, and collaboration, echoing the spirit of our enthusiastic student community. From the early stages of collecting ideas to the final touches of this design, this experience has been filled with learning, inspiration, and teamwork. The editorial team has poured their energy and imagination into shaping this magazine into something truly special. Each section reflects the growth, achievements, and innovative mindset of our department.

*“Assembling ideas with purpose and heart,
our design journey reflects the spirit of excellence ”*

--J. Aisha Nelofer

LETTER FROM ASSOCIATE EDITOR'S

The editorial team's dedication and teamwork brought this magazine to life. Together, we navigated challenges with creativity and patience. Each page reflects our collective effort and passion. This publication truly represents the spirit of our department.

R.Harish-Associate Editor/CSE

From 3rd year "A" Section

Department of Computer Science and Engineering

EGS Pillay Engineering College - Nagapattinam.

Harnessing creativity and teamwork throughout this magazine journey has been an unforgettable experience. From the very first brainstorming session to the final compilation, every moment reflected passion, unity, and purpose. This magazine is more than just printed pages; it is a reflection of our collective imagination and determination. Each article, design, and idea carries the essence of our department's vibrant spirit and collaborative effort. Working on this project taught me that true progress happens when ideas flow freely and minds connect with a shared goal. It showed me how teamwork transforms individual thoughts into something powerful and inspiring. Every page stands as a symbol of perseverance, learning, and creativity.

*“Hard work turns imagination into
inspiration and inspiration into legacy.”*

--R. Harish

J.S.Archana-Associate Editor/CSE

From 3rd year "A" Section

Department of Computer Science and Engineering

EGS Pillay Engineering College-Nagapattinam.

Amidst the excitement of our department's symposium, being part of the magazine editorial team has been a truly memorable and enriching journey. This magazine stands as a reflection of creativity, teamwork, and dedication, capturing the spirit and enthusiasm of everyone involved. The process of collecting articles, editing content, and designing pages taught us the importance of coordination, patience, and shared vision. Though challenges came our way, the encouragement and unity within the team helped transform every obstacle into a learning experience. Each page of this edition represents the collective effort and imagination of our contributors who poured their ideas and energy into making it special. The magazine beautifully showcases the achievements and innovative spirit that define our department. This journey has been a reminder that success is built on collaboration and passion. Heartfelt gratitude to our Chief Editor for her valuable guidance, to our faculty members for their support, and to my fellow team members for their dedication throughout this creative endeavor. May this magazine continue to inspire and motivate future teams to dream, design, and deliver with the same enthusiasm and commitment.

*“As passion and teamwork align,
creativity awakens its fullest potential.”*

--J.S.Archana

J.Nithiyanandham-Associate Editor/CSE

From 3rd year “A” Section

Department of Computer Science and Engineering

EGS Pillay Engineering College-Nagapattinam.

Navigating through the journey of creating this symposium magazine has been a truly inspiring and rewarding experience. This edition stands as a symbol of creativity, unity, and dedication, reflecting the hard work and enthusiasm of everyone involved in its making. From brainstorming ideas to finalizing content, every step was filled with learning, collaboration, and mutual encouragement. The process not only enhanced our technical and creative skills but also strengthened the spirit of teamwork among the editorial members. Each page in this magazine captures the passion, innovation, and excellence that define our department. Behind every word and design lies the effort of individuals who worked with sincerity and purpose to make this publication a success. This journey reminded us that great results are born from cooperation, patience, and shared vision. I sincerely thank our Chief Editor for valuable guidance, our faculty members for continuous support, editorial team for their dedication and commitment. May this magazine continue to inspire creativity and reflect the excellence of our department in the years.

“Nothing is more powerful than dedication and creativity coming together to create a masterpiece.”

--J.Nithiyanandham



STAFF ACHIEVEMENTS

04

ABOUT STAFF ACHIEVEMENT'S

A staff achievement is a written contribution by a member of the college magazine's editorial team or writing staff.

it serves as a platform to express ideas, opinions, and insights on various topics that matter to students and the academic community. The purpose of a staff article is to inform, inspire, and engage readers through thoughtful writing. It may cover subjects such as education, technology, culture, lifestyle, or social issues, reflecting the interests and perspectives of the campus. Each article is crafted with care and creativity, aiming to spark curiosity and discussion among readers. Staff articles also help promote awareness and encourage critical thinking within the student community. They provide an opportunity for writers to explore their thoughts, share knowledge, and contribute to the intellectual and cultural life of the college. Beyond just sharing information, these articles highlight the value of writing as a powerful tool for communication and inspiration.

01

FACULTY DEVELOPMENT PROGRAM

01 “Empowering Educators through Blockchain Innovation: Faculty Development Program at Sathyabama Institute”

Our faculty members attended a one-week FDP on “Disruptive Blocks: Navigating the Blockchain Era” from 01.07.2025 to 05.07.2025, organized by Sathyabama Institute of Science and Technology. The program enhanced their understanding of blockchain architecture, smart contracts, and emerging trends, empowering them to integrate innovative technologies into teaching and research.



I'm **N. Kannan**, delighted to have participated in the one-week faculty development program conducted on the technology “**Disruptive Blocks Navigating Blockchain Era**” organized by Sathyabama Institute of Science and Technology between

01.07.2025 and 05.07.2025. The FDP provided valuable insights into blockchain technology, smart contracts, and emerging trends, which greatly enhanced my knowledge and inspired me to explore innovative applications in the field of computer science.



I'm **E.Saranya**, delighted to have participated in the one - week Faculty Development Program conducted on the technology “**Disruptive Blocks Navigating the Blockchain Era**” organized by Sathyabama Institute of Science and Technology

from 01.07.2025 to 05.07.2025. The FDP provided valuable insights into blockchain technology, smart contracts, and emerging trends, which greatly enhanced my knowledge and inspired me to explore innovative applications in the field of computer science.

02 “Faculty Development Programme on AI-Powered IoT Applications”

Our faculty members actively participated in a one-week Faculty Development Programme (FDP) on “IoT Applications Powered by AI,” held from 28th July to 1st August 2025 at Sir Isaac Newton College of Engineering & Technology. The programme aimed to enhance knowledge in emerging technologies and focused on integrating Artificial Intelligence with the Internet of Things. Faculty members explored IoT architecture, intelligent data processing, and practical real-world applications. The sessions included hands-on workshops, live demonstrations, and case studies, providing practical experience in designing AI-powered IoT systems. Participants learned how to leverage sensor data, predictive analytics, and machine learning algorithms to develop smarter and more efficient solutions.



I'm **Aisha Nelofer J**, proud to have completed the FDP on IoT powered by AI. The sessions were enriching and expanded my technical perspective. This experience supports my growth as an AP/CSE at EGS Pillay Engineering College.

I'm **V.Manikandarprabhu**, glad to have completed the FDP on IoT and AI. The sessions offered fresh ideas and practical knowledge for teaching. This program strengthened my role as an AP/CSE in emerging tech. I'm excited to share these learnings with my students.



I'm **Kalaivani M**, happy to have participated in the FDP on IoT and AI. It helped me explore new concepts and teaching strategies. This program enhanced my skills as an AP/CSE at EGS Pillay. I'm eager to integrate this knowledge into my classes.



Reference Number: SINCET/FDP1/2025-26/CSE/028



I'm **Ponvardhini.S**, proud to have joined the FDP on IoT powered by AI. The sessions were insightful and broadened my technical understanding. This experience adds value to my role as an AP/CSE. I aim to apply these ideas in future academic work.

I'm **Nithiyabharathi.G**, glad to have completed the FDP on IoT and AI. It was a great opportunity to upgrade my technical knowledge. This program supports my growth as an AP/CSE at EGS Pillay. I look forward to implementing these insights in my teaching.

Reference Number: SINCET/FDP1/2025-26/CSE/053



I'm **L. Mogana Priya**, proud to have taken part in the FDP on IoT and AI. The sessions were engaging and full of practical applications. This learning enhances my role as an AP/CSE at EGS Pillay. I'm excited to bring this knowledge into my classroom.

Reference Number: SINCET/FDP1/2025-26/CSE/059



03 “Faculty Development Program on Quantum Cloud Platforms: Advancing Scalable and Intelligent Systems”

A one-week FDP on “Harnessing Quantum Cloud Platforms” was held from 18th to 23rd August 2025. The program focused on quantum computing fundamentals, cloud platforms, and intelligent systems. It offered practical insights and research exposure to empower educators in emerging technologies.

I'm **N.Kannan**, and I'm proud to have completed the ATAL FDP on Quantum Cloud Platforms. The sessions were deeply insightful and expanded my understanding of scalable computing. This program enriched my role as an Assistant Professor at EGS Pillay Engineering College.



I'm **Sugumaran V.R.**, glad to have participated in the ATAL FDP on Quantum Cloud Platforms. The training offered valuable insights into intelligent systems and cloud scalability. It strengthened my academic foundation as an AP/CSE at ISL Engineering College.



STUDENT ACHIEVEMENTS

05

ABOUT STUDENT ACHIEVEMENTS

Student achievements are a celebration of hard work, learners to reach new milestones both inside and outside the room. Every success story is not just an individual accomplishment but also a proud moment for the institution, showcasing the collective efforts of students, faculty, and mentors. This section is dedicated to recognizing and honoring the remarkable accomplishments of our students. We take pride not only in the accolades but also in the journey—every challenge overcome, every lesson learned, and every skill honed. As we honor these exceptional students, we also acknowledge the guiding hands of mentors, the encouragement of peers, and the supportive environment that makes such growth possible. Their stories serve as beacons of inspiration, reminding us that dedication, passion, and resilience can turn aspirations into reality.

Paper Proceedings

Think • Create • Share

The paper presentation showcased innovative research and emerging technologies, encouraging students to share ideas, enhance technical knowledge, and develop communication skills while presenting their work confidently before peers and experts.

Frontiers of Artificial Intelligence: from Deep Learning to Ethical Explainability

Manju V

GRT Institute of Engineering and
Technology (GRTIET), Tamil Nadu



This paper explores the rapid evolution of Artificial Intelligence from the depths of deep learning to the forefront of ethical and explainable AI. It emphasizes the balance between technological advancement and responsible, transparent decision-making in intelligent systems.



Data Mining:

Amity Institute of Information Technology (AIIT).

Data Mining



An Efficient Way to Manage Big Data by Cybersecurity Analysts

The paper “Data Mining: An Efficient Way to Manage Big Data by Cybersecurity Analysts” explores how data mining techniques help cybersecurity professionals analyze vast datasets efficiently. It highlights methods to detect threats, uncover patterns, and strengthen digital security using big data insights.

Ananya Atri

Towards Transparent and Secure²² AI: Integrating Federated Learning and Explainable Models in Healthcare



This paper explores how federated learning combined with explainable AI models can enhance healthcare data privacy and security. It emphasizes creating transparent AI systems that allow clinicians to trust and understand predictions while safeguarding patient information.

**PSNA College of
Engineering and
Technology (PSNACET),
Dindigul**

**Akash S
Dhanushya S
Dharshan VS**

Low-Cost AI-Enabled Modular Soil Health Monitoring and Microclimate Control System

Velammal Institute of Technology (VIT),
Thatchoor, Tamil Nadu

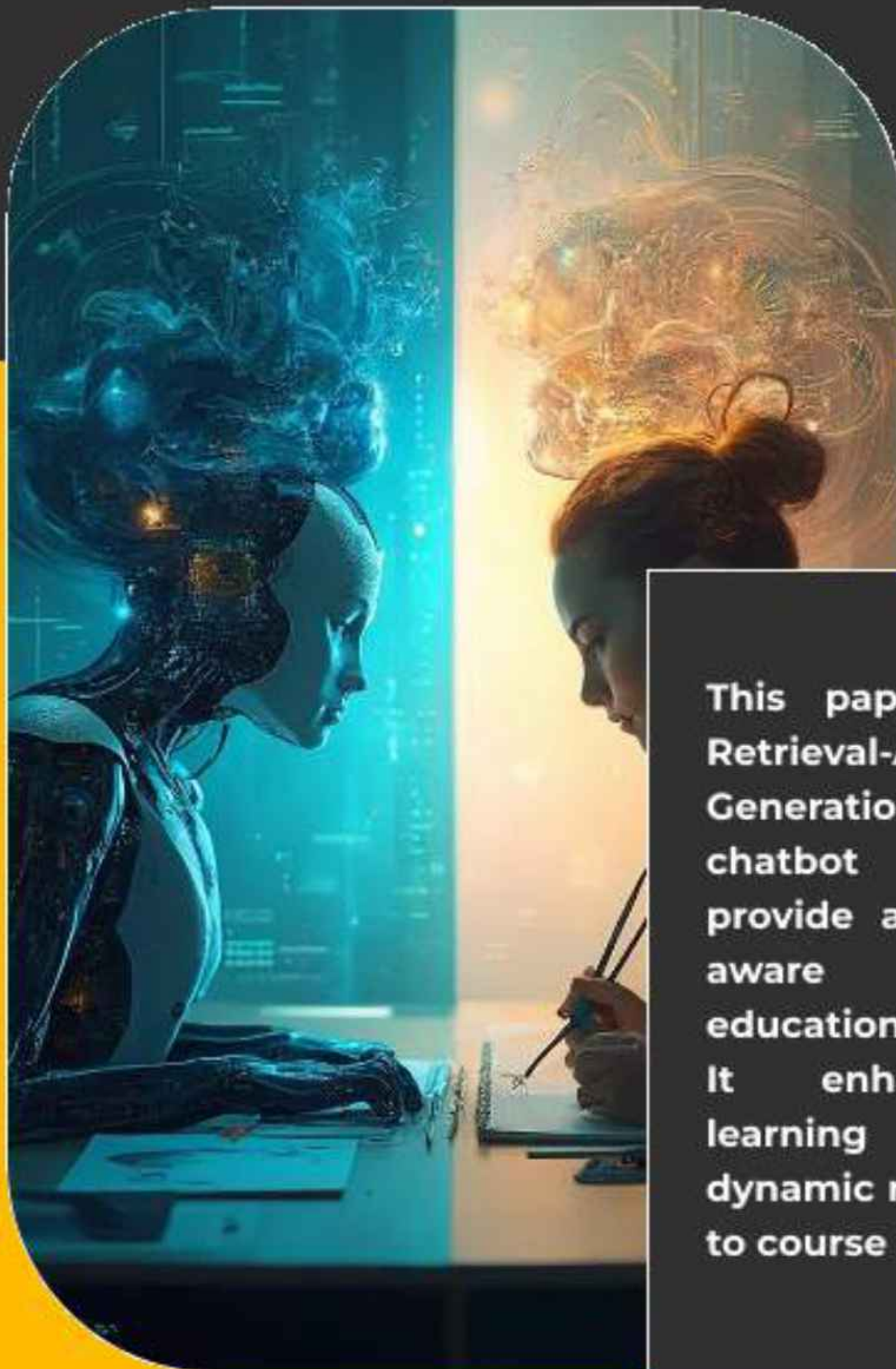
Bharath Velan S

The study presents an affordable AI-driven system for monitoring soil health and controlling microclimate conditions in agriculture. It aims to optimize crop growth and sustainability through real-time data analysis and automation.

MOISTURE: 65%
NITROGEN: HIGH
TEMP: 28°C



A RAG-Based AI Chatbot for Dynamic Contextual Question Answering on Educational Platforms

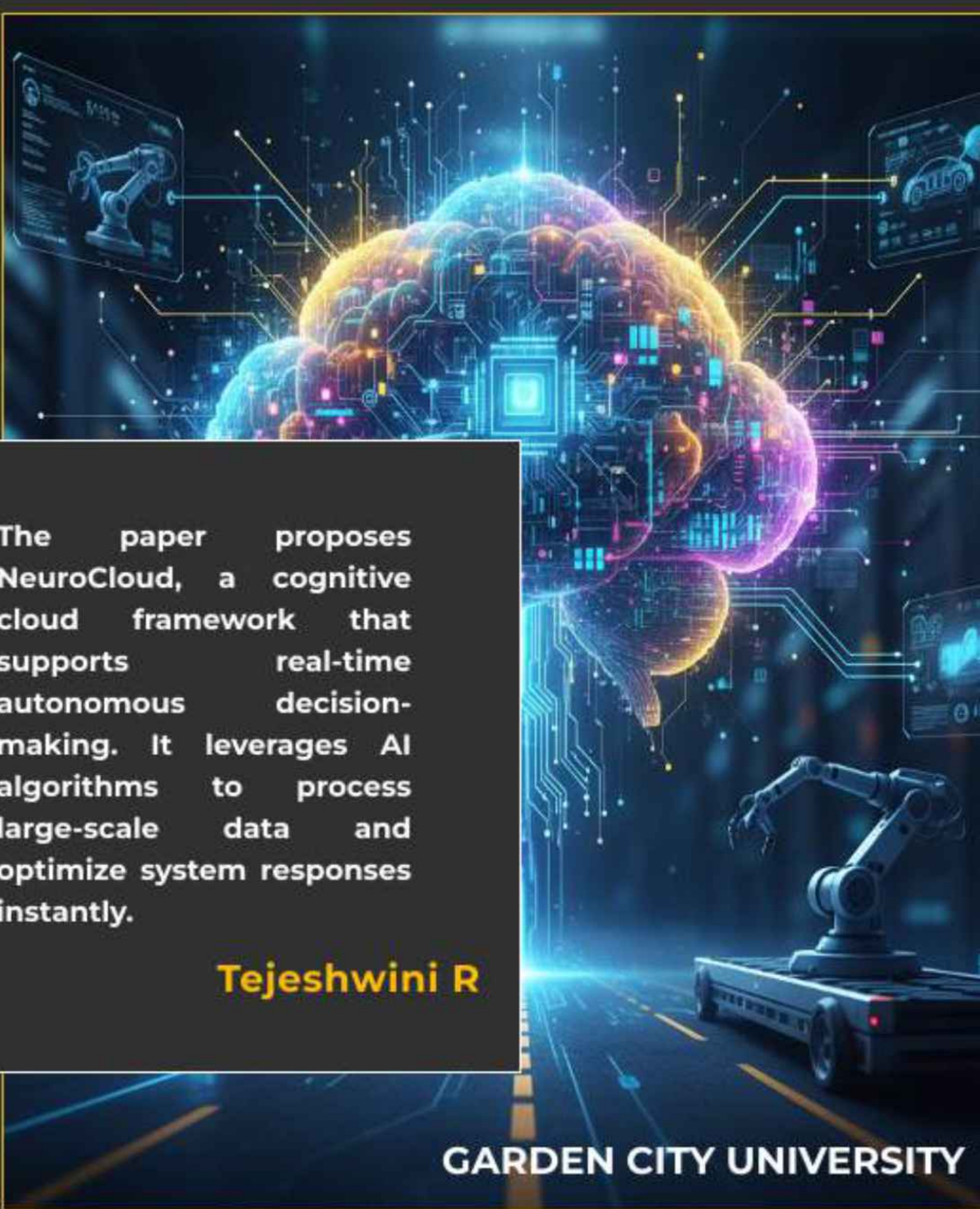


**IIIT RGukt, RK
Valley**

This paper introduces a Retrieval-Augmented Generation (RAG) AI chatbot designed to provide accurate, context-aware answers in educational environments. It enhances student learning by delivering dynamic responses tailored to course materials.

RAJESH CHOWDUVADA

NeuroCloud: Adaptive Cognitive Cloud for Autonomous Decision-Making in Real-Time Systems



The paper proposes NeuroCloud, a cognitive cloud framework that supports real-time autonomous decision-making. It leverages AI algorithms to process large-scale data and optimize system responses instantly.

Tejeshwini R

Breast Cancer Classification using CLDNN and SVM Model

Guru Tegh Bahadur 4th Centenary
Engineering College, Delhi

This study combines Convolutional LSTM Deep Neural Networks (CLDNN) with Support Vector Machines (SVM) to classify breast cancer effectively. It aims to improve diagnostic accuracy and assist medical professionals in early detection.

Jigyasa R



SVM
Classifier

Benign

Maligant

The Neuro-Ethical Sustainability Paradigm (NESP):

Saheba Kaur Kapoor

Toward Cognitive Sustainability in Artificial Intelligence

The paper explores ethical frameworks for AI development focusing on cognitive sustainability. It emphasizes creating AI systems that are responsible, transparent, and aligned with long-term societal well-being.

**Mata Sundri College
for Women
(University Of Delhi),
Delhi**

NavAlgate – AI-Powered Career and Learning Navigator for Students and Professionals

SRM VALLIAMMAI ENGINEERING COLLEGE

NavAlgate is an AI-driven platform designed to guide users in career planning and skill development. It provides personalized recommendations based on individual goals, interests, and market trends.

AATHIVEL M



Explainable AI for Ethical Machine Learning: A Case Study on Income Prediction using UCI Adult Dataset

**Techno Main Salt Lake,
Kolkata, West Bengal**



**Nilanjan Pradhan
Nirnay Ghosh
Fauzia Nasrin**

Student Articles

A student article is a written piece created by students to share insights, research, or opinions on a particular topic.

**JULY
AUGUST
SEPTEMBER**



A Complete Guide To

FULL-STACK DEVELOPMENT



“Building the Future of Digital Content : A Full Stack CMS”

Overview

In the modern world, where is shifting towards digital platforms, content management has become a tool organizations, and businesses. Be it blogs, educational portals, or corporate websites, content must be well-structured, secure, and easy to manage. With this vision in mind, as part of my academic journey, I explored on the domain Full Stack Web Development - “Content Management System (CMS)”.

The system begins with registration, where users provide their details to join the platform. Through authentication, secure JWT-based login ensures only authorized access. Once logged in, users engage in creation, crafting posts through a user-friendly editor. Clear roles separate general users who submit content from admins who manage approvals. Finally, publishing is handled by admins, ensuring quality and control of shared content.

Manikandan R
CSE - IV

“Decentralized Finance (DeFi) Project using Blockchain”

Overview

In today's era, where finance is rapidly shifting towards digital platforms, Decentralized Finance (DeFi) has emerged as a revolutionary approach for managing financial transactions without intermediaries. DeFi leverages blockchain technology to ensure transparency, security, and accessibility in services like lending, borrowing, and trading.

Gokulavasan M

CSE - IV

In the Decentralized Finance (DeFi) platform, users connect their wallets like MetaMask, which serve as unique identities without central registration. Smart contracts automate all financial activities, ensuring transparency and security. Users can deposit crypto to earn interest or borrow tokens by locking collateral. Token swaps happen through decentralized exchanges with liquidity pools and Automated Market Makers. Staking and yield farming allow users to earn rewards, while governance tokens enable community-driven decision-making. All transactions remain immutable on the blockchain.





The Future of Cloud Computing

Scalability and Security in Distributed Systems

Overview

This project explores the future of cloud computing, focusing on scalability and security in distributed systems. It examines how cloud infrastructures can efficiently handle growing workloads while maintaining data integrity protection. Key areas include dynamic resource allocation, load balancing, fault tolerance, advanced encryption techniques. The study highlights emerging technologies like edge computing, serverless architectures, and AI-driven cloud management, emphasizing their role in enhancing performance and security.

The project researched current cloud architectures and security protocols to understand distributed systems and analyzed scalability challenges with solutions like load balancing and fault tolerance. Simulations were implemented, and security measures along with performance metrics were evaluated to identify vulnerabilities and optimize efficiency. The findings were documented, with recommendations for future enhancements.

Albasith B

CSE - IV

“Artificial Intelligence in Healthcare: Applications and Ethical Challenges”



Overview

This project explores the applications ethical challenges of AI in healthcare. It examines AI technologies, such as machine learning, natural language processing, and predictive analytics, improve patient care, diagnostics, treatment planning, and hospital management. The study also addresses ethical concerns including data privacy, algorithmic bias, and accountability. By highlighting both the benefits and potential risks, the project aims to provide a balanced perspective on integrating AI responsibly in healthcare systems.

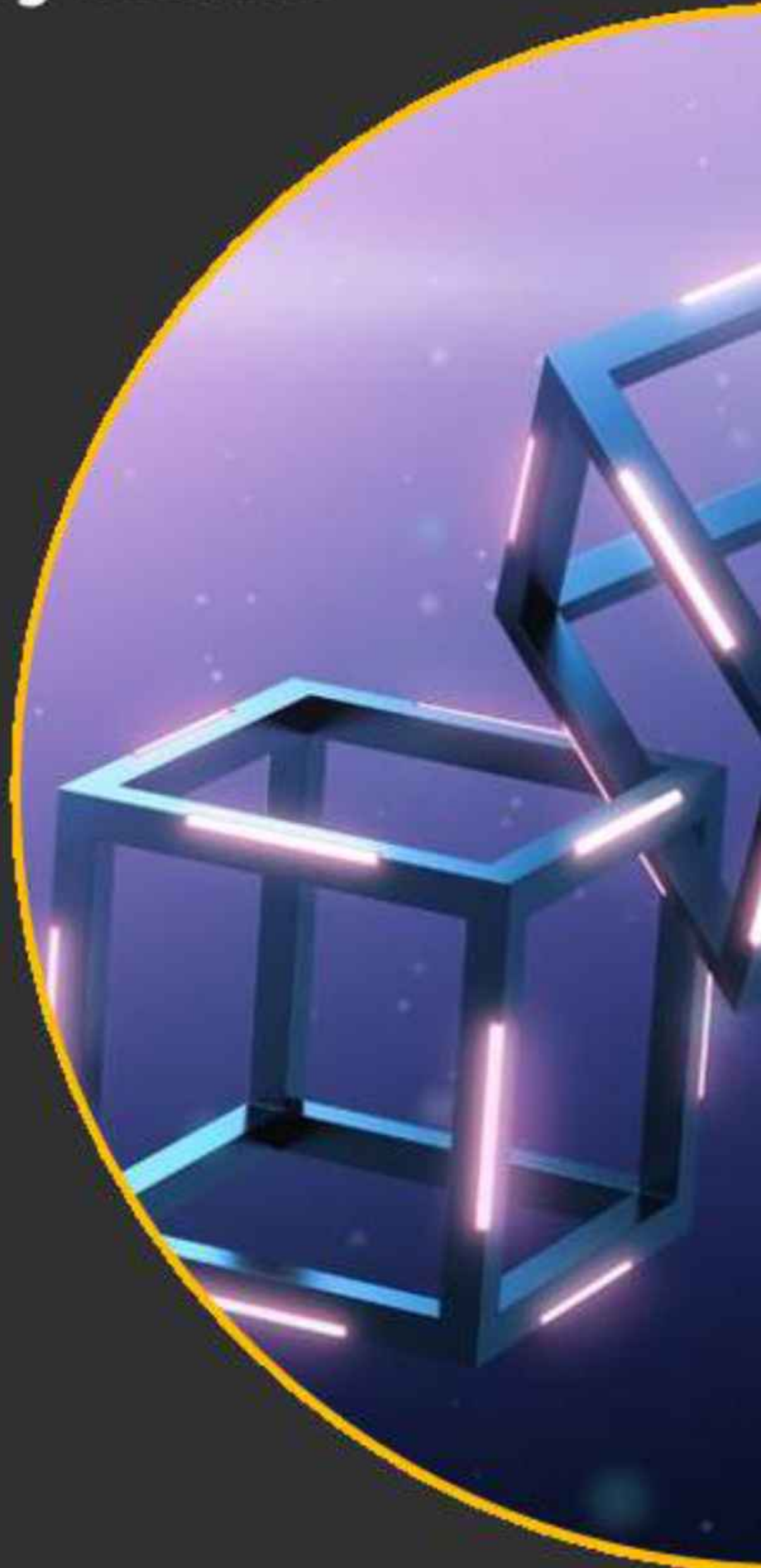
The project began with research on AI applications and healthcare technologies, followed by an analysis of ethical challenges and regulatory frameworks. AI-based simulations and case studies were implemented to test practical applications. Outcomes, accuracy, and ethical compliance were thoroughly evaluated to identify strengths and limitations.

Arnold Johnson S
CSE - IV

“Blockchain Beyond Cryptocurrency: Building Secure and Transparent Systems”

Overview

This project explores the use of blockchain technology beyond cryptocurrency, focusing on building secure, transparent, and decentralized systems. It examines applications in supply chain management, healthcare, finance, and governance, highlighting how blockchain ensures data integrity, traceability, and tamper-proof recordkeeping. The study also addresses challenges such as scalability, energy efficiency, and regulatory compliance. By analyzing real-world use cases and technological frameworks, the project demonstrates how blockchain can transform industries through trustless, secure, and transparent systems.



Big Data Analytics: Unlocking Insights for Smarter Decision Making”

Overview

This project explores Big Data Analytics and its role in enabling smarter decision-making across industries. It focuses on techniques for collecting, processing, and analyzing large volumes of structured and unstructured data to uncover actionable insights. Key areas include predictive analytics, data visualization, and real-time data processing, aimed at improving operational efficiency, customer understanding, and strategic planning. The study also addresses challenges like data privacy, storage, and processing speed. By examining real-world applications and best practices, the project highlights how organizations can leverage big data to drive informed decisions.



Edge Computing

Bridging the Gap
Between IoT Devices
and the Cloud”

37

Overview

This project explores edge computing and its role in bridging the gap between IoT devices and the cloud. It examines how processing data closer to the source reduces latency, improves real-time decision-making, and optimizes network bandwidth. Key applications include smart cities, healthcare monitoring, industrial automation, and autonomous systems. The study also addresses challenges such as security, scalability, and resource management at the edge. By analyzing practical implementations and emerging technologies, the project highlights the transformative potential of edge computing in IoT ecosystems.



Gokulnath R
CSE - IV

Against Emerging
Threats

Cybersecurity in the Digital Era

Overview

This project explores cybersecurity in the digital era, focusing on strategies to defend against emerging threats. It examines common cyberattacks, including malware, phishing, ransomware, and advanced persistent threats. The study highlights security frameworks, encryption techniques, and intrusion detection systems to protect digital assets. It also addresses challenges such as evolving threat landscapes, human factors, and regulatory compliance. By analyzing case studies and best practices, the project emphasizes proactive defense mechanisms and risk mitigation strategies.

Machine Learning Algorithms

Overview

This project explores machine learning algorithms and their role in transforming data into intelligent solutions. It examines supervised, unsupervised, and reinforcement learning techniques to solve real-world problems. Key applications include predictive analytics, recommendation systems, image speech recognition, and autonomous systems. The study also addresses challenges like overfitting, data quality, and model interpretability. By analyzing practical implementations and evaluating algorithm performance, the project demonstrates how machine learning enables smarter decision-making and automation.

Elavarasi CSE - II

Transforming Data into Intelligent Solutions



Deep Learning



Image and Speech Recognition Advances and Challenges

Overview

This project explores deep learning techniques for image and speech recognition, focusing on recent advances and challenges. It examines neural network architectures such as CNNs for image analysis and RNNs/LSTMs for speech processing. Key applications include facial recognition, voice assistants, medical imaging, and autonomous systems. The study also addresses challenges like data requirements, model complexity, and computational costs. By analyzing practical implementations and performance metrics, the project highlights how deep learning is transforming intelligent systems.

Poney Joshwa
CSE - III

DevOps and Automation

Accelerating Software Development Lifecycles”

Overview

This project explores the use of blockchain technology beyond cryptocurrency, focusing on building secure, transparent, and decentralized systems. It examines applications in supply chain management, healthcare, finance, and governance, highlighting how blockchain ensures data integrity, traceability, and tamper-proof recordkeeping. The study also addresses challenges such as scalability, energy efficiency, and regulatory compliance. By analyzing real-world use cases and technological frameworks, the project demonstrates how blockchain can transform industries through trustless, secure, and transparent systems.



06 Student Projects

“Our project was an innovative, practical, and challenging journey that turned out to be impactful and highly learning-oriented.”

**JULY
AUGUST
SEPTEMBER**



Wireless E-Vehicle Charging System

K. Monika Sri
A. Mukilarasi
R. Sandhiya
CSE - IV

The project titled **"Wireless E-Vehicle Charging System"** was successfully developed by **K. Monika Sri, A. Mukilarasi, and R. Sandhiya** as a step toward advancing electric vehicle (EV) technology.

This innovative system utilizes the principle of electromagnetic induction to wirelessly transfer power from a transmitter coil, embedded in the charging station, to a receiver coil mounted on the electric vehicle.

This method eliminates the need for traditional plug-in cables, offering a more convenient, user-friendly, and efficient charging solution. By enabling contactless power transfer, the system reduces wear and tear, lowers maintenance needs, and enhances overall safety.

The design also supports automation and can be integrated with smart grid systems for optimized energy management. **This project not only promotes clean energy usage but also addresses the growing demand for sustainable, efficient EV infrastructure.**

It marks a significant contribution toward the future of eco-friendly, wireless transportation, aligning with the global push toward green mobility solutions.

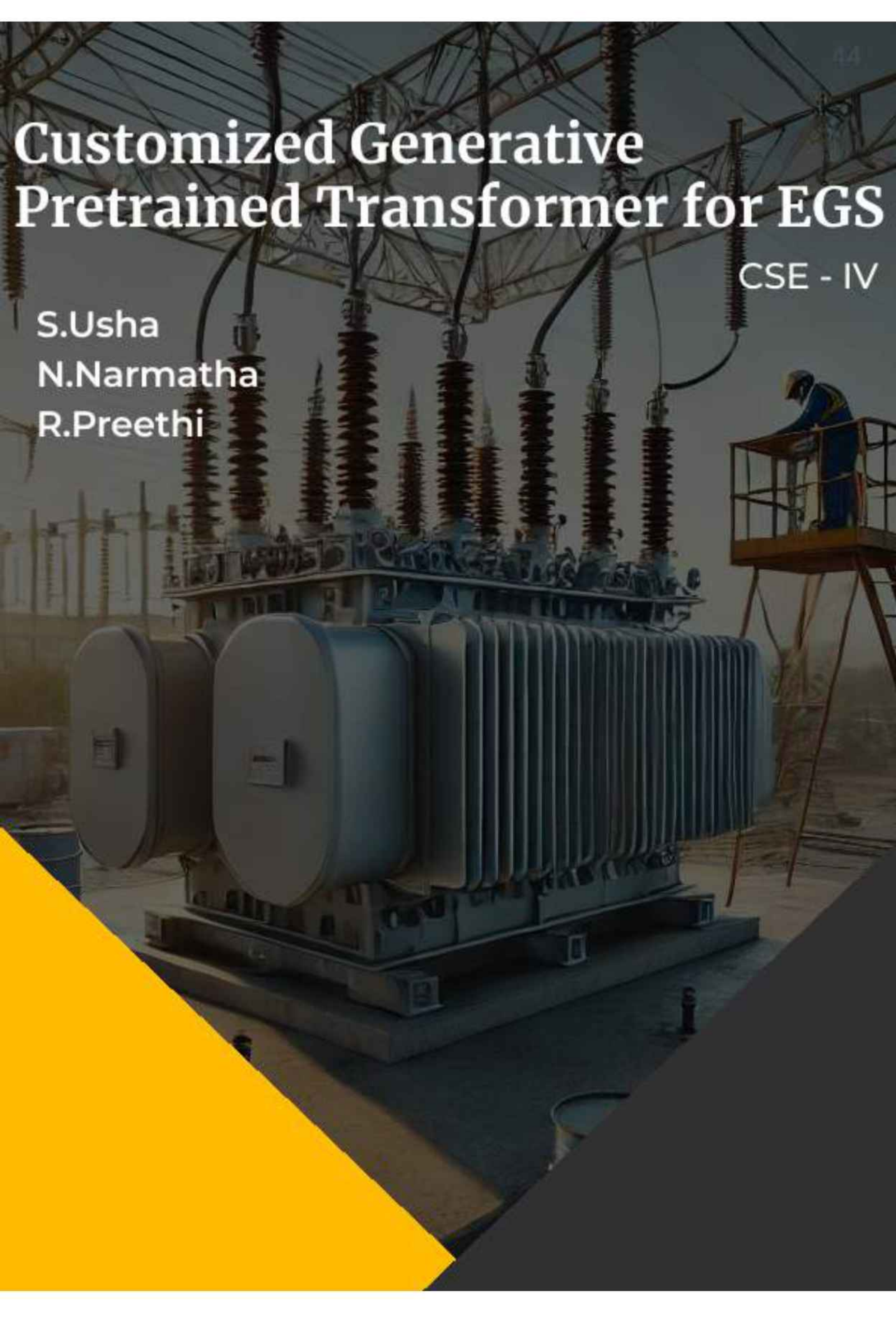
Customized Generative Pretrained Transformer for EGS

CSE - IV

S.Usha

N.Narmatha

R.Preethi



The project titled **"Customized Generative Pretrained Transformer for EGS"** was successfully developed by **S. Usha, N. Narmatha, and R. Preethi.**

This project focuses on tailoring a Generative Pretrained Transformer (GPT) model specifically for Educational Guidance Systems (EGS). By fine-tuning a pre-existing GPT architecture, the team created a model capable of understanding and responding to educational queries with high relevance and accuracy.

The customized GPT assists students by offering subject-specific guidance, answering academic questions, and providing learning resources in a conversational manner.

This intelligent system can be integrated into online learning platforms to enhance student engagement and self-learning. The project combines the power of natural language processing (NLP) and machine learning to create a personalized and interactive educational tool. **It showcases the potential of AI in revolutionizing education by making it more accessible, adaptive, and efficient.** The work done by the team represents a significant step toward smart, AI-driven learning environments.

URL - based Phishing Detection

CSE - IV

S.Suvathi

P.Naveen

D.Yogeshwaran

The project titled **"URL-Based Phishing Detection"** was successfully developed by **S. Suvathi, P. Naveen, and D. Yogeshwaran.**

This project aims to combat the growing threat of phishing attacks by detecting malicious websites through URL analysis. Phishing is a technique used by cybercriminals to deceive users into providing sensitive information like passwords and financial details by mimicking legitimate websites.

The team developed a machine learning-based model that examines key URL features such as domain structure, length, use of special characters, and redirection patterns to classify URLs as safe or phishing.

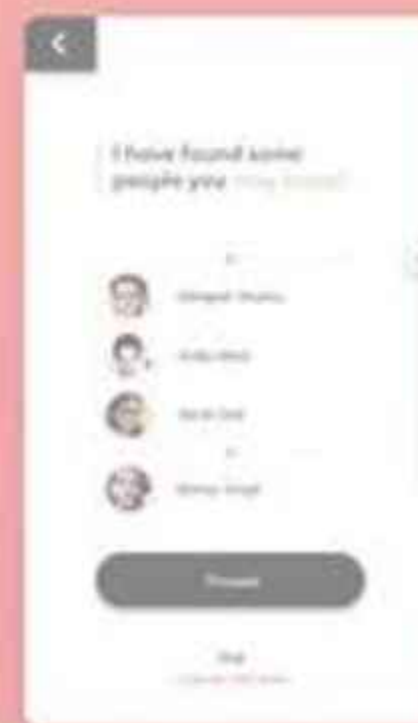
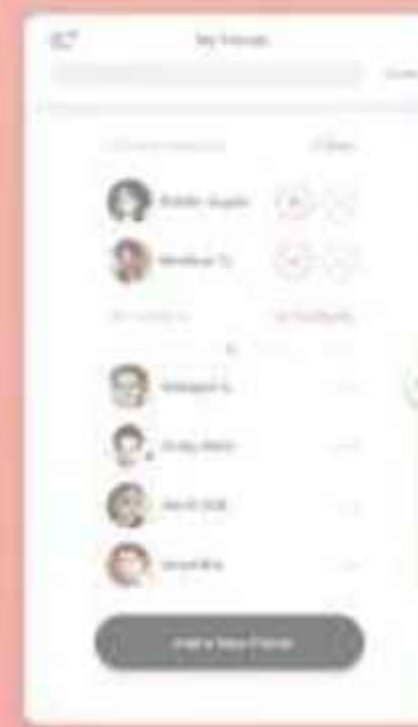
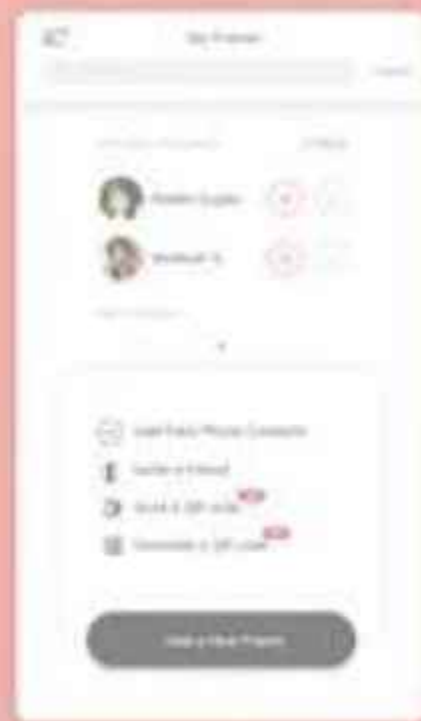
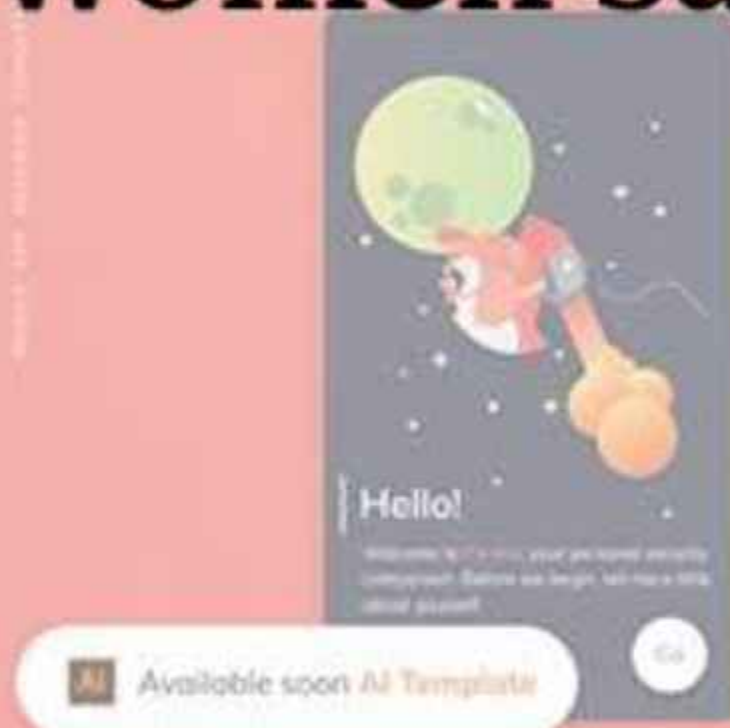
By training the system on a dataset containing both legitimate and malicious URLs, it can accurately identify threats in real-time. **This solution can be integrated into web browsers, email clients, and security systems to provide proactive protection against phishing attacks.**

The project demonstrates a practical application of artificial intelligence in cybersecurity, enhancing user safety and building a more secure digital environment for everyday internet users.



Your personal safety companion
With you, always.

Safezone community-driven women safety alert app



CSE - IV

R Sriram

V S Naveen Kumar

B Ruthiran

The project titled **"SafeZone Community-Driven Women Safety Alert App"** was developed by **R. Sriram, V. S. Naveen Kumar, and Ruthiran B.**

This mobile application focuses on enhancing women's safety through a community-driven alert system. The app allows users to quickly send distress signals and their real-time location to trusted contacts or nearby community members during emergencies.

It features easy-to-use alert buttons, GPS tracking, and an interactive map that helps responders reach those in need promptly.

By leveraging community participation, the app creates a safer environment where timely assistance can be provided. Additionally, the app may include features like SOS alerts, emergency contacts, and safety tips to empower users.

This project highlights the importance of technology in addressing social issues, aiming to reduce the risks women face and foster a proactive, supportive community for women's safety and well-being.

Smart Car Manual Assistant

CSE - IV

Vikneshwaran S

Nithies M

Shithik Asath M

The project titled **"Smart Car Manual Assistant"** was developed by **Vikneshwaran S., Nithies M., and Shithik Asath M.**

This intelligent system is designed to help car owners and drivers easily understand and use their vehicle's features without referring to a physical manual.

By integrating AI and natural language processing, the assistant can answer user queries related to car functions, troubleshooting, and maintenance in a conversational manner.

Users can interact with the system via voice or text, making it convenient and hands-free while driving. **The Smart Car Manual Assistant aims to enhance the driving experience by providing quick, accurate, and accessible information, reducing confusion and the need to consult bulky manuals.**

This project highlights the application of AI in automotive technology, improving user convenience, safety, and vehicle management for a smarter, more intuitive driving experience.

Secure Drive 3.0

CSE - IV
Vigneshwar .K
Nithyashri .M
Tamilmani .I



The project **"Secure Drive 3.0"** was developed by **Vigneshwar K, Nithyashri M, and Tamilmani I.**

This advanced system focuses on enhancing vehicle security and driver safety through cutting-edge technology. Secure Drive 3.0 integrates features such as real-time monitoring, driver authentication, and alert mechanisms to prevent unauthorized access and reduce accidents. Utilizing sensors, GPS tracking, and AI-based analytics, the system can detect unusual driving behavior, unauthorized entry, or potential threats and immediately notify the vehicle owner or authorities.

Additionally, it supports emergency response features like automatic crash detection and SOS alerts. **This project aims to create a safer driving environment by combining security, safety, and smart technology, making it a comprehensive solution for modern vehicles.**

Secure Drive 3.0 represents a significant leap forward in protecting both drivers and their vehicles in today's fast-evolving automotive landscape.



Hearts & Paws

Pet Adoption Event

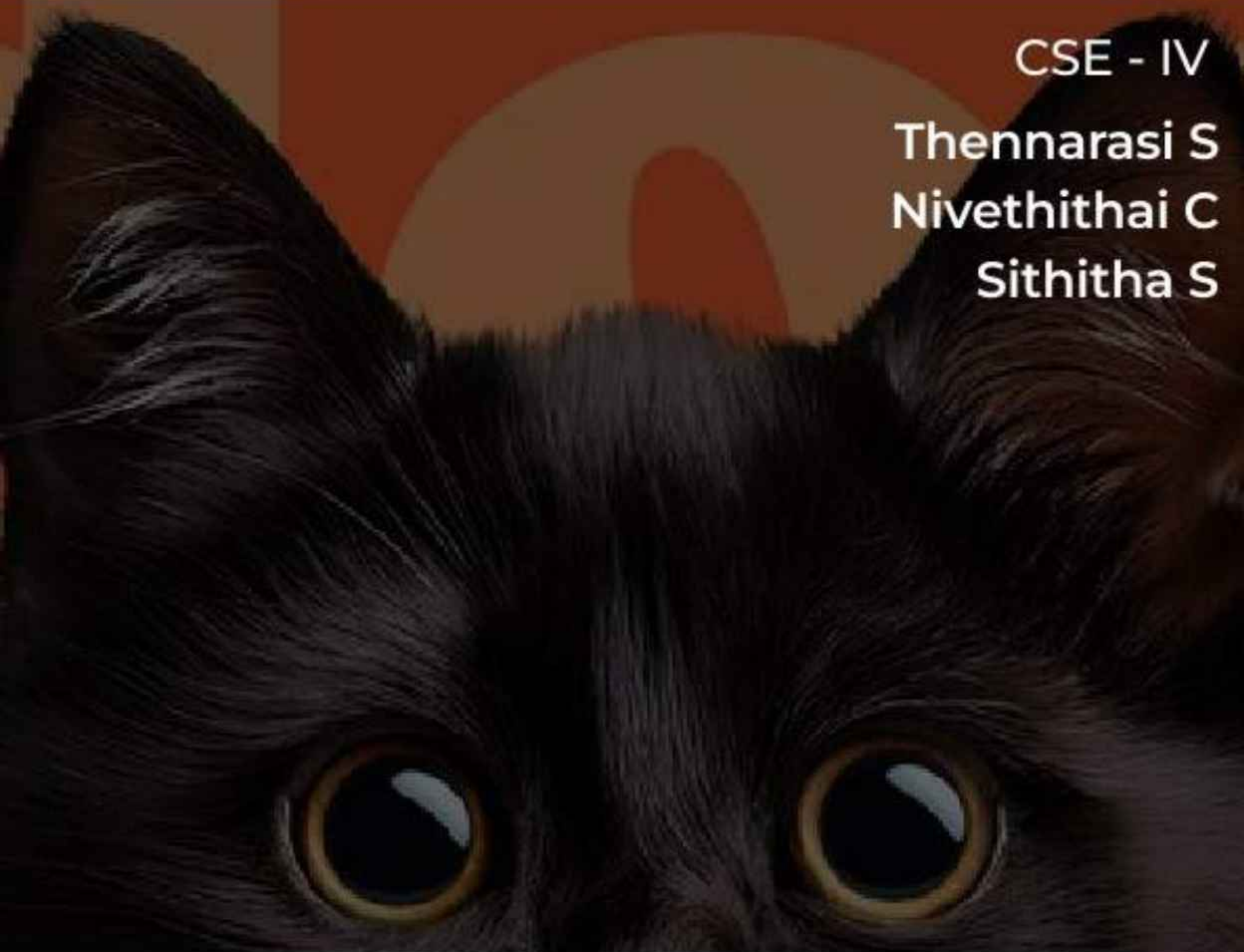
Pet Adoption Website

CSE - IV

Thennarasi S

Nivethithai C

Sithitha S



The Pet Adoption Website project was developed by **Thennarasi S., Nivethithai C., and Sithitha S.**


This platform aims to connect potential pet adopters with animals in need of loving homes. The website provides a user-friendly interface where users can browse through profiles of pets available for adoption, complete with photos, descriptions, and health information.

It also offers features like search filters, adoption application forms, and contact options for shelters or pet owners.

The goal is to simplify the adoption process, promote animal welfare, and encourage responsible pet ownership.

By creating an accessible online space, the project helps increase the chances of finding forever homes for pets while educating users about the responsibilities of adoption.

This website serves as a valuable tool in supporting animal rescue efforts and building a compassionate community around pet adoption.



CSE - IV

Sowmiya.K

PRAVEEN KUMAR S

VISHAL V

AI-Intelligent Virtual Assistant for Customer Helpdesk

The project **“AI-Intelligent Virtual Assistant for Customer Helpdesk”** was developed by **Sowmiya K, Praveen Kumar S, and Vishal V.**

This AI-powered system is designed to enhance customer support by providing instant, accurate, and 24/7 assistance through natural language conversations.

The virtual assistant can handle common queries, troubleshoot issues, and guide users without the need for human intervention, reducing response time and workload on support teams. **Using advanced natural language processing (NLP) and machine learning algorithms, the assistant understands customer intent and delivers personalized solutions.**

It can be integrated into websites, apps, or messaging platforms, making customer service more accessible and efficient.

This project showcases how AI technology can transform helpdesk operations by improving customer satisfaction, streamlining support processes, and enabling businesses to offer smarter, faster, and more scalable service solutions.

Advanced Phishing Detection Browser Extension

CSE - IV

YASIR EBNU ARIFF M

RAMESH S

RANJITH R

The project titled **“Advanced Phishing Detection Browser Extension”** was developed by **Yasir Ebnu Ariff, M. Ramesh S., and Ranjith R.**

This innovative browser extension aims to protect users from phishing attacks by analyzing websites in real-time. It uses advanced machine learning algorithms to detect suspicious URLs, fake login pages, and malicious content before the user interacts with them.

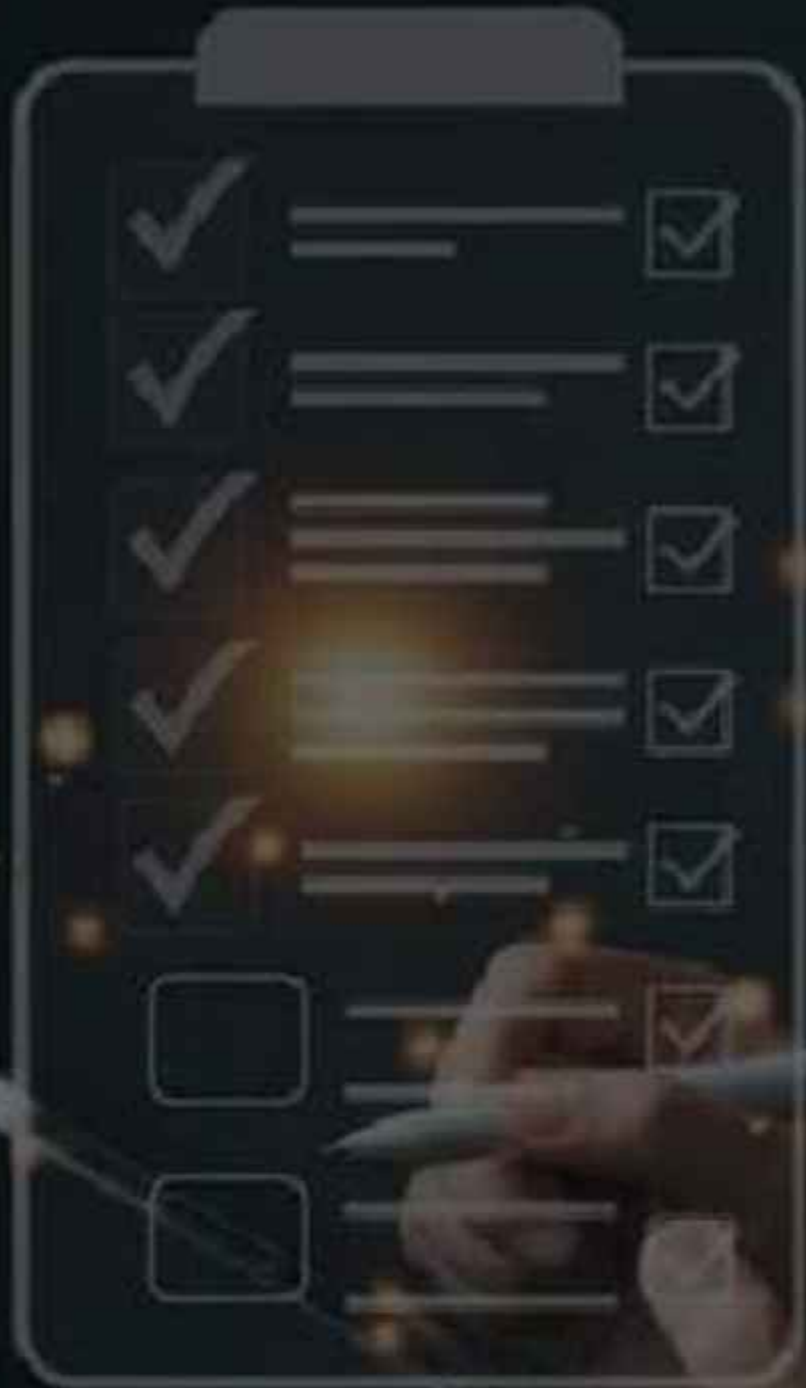
The extension scans various features such as domain patterns, page behavior, and security certificates to identify potential threats accurately.

By providing instant warnings and blocking harmful sites, it significantly reduces the risk of users falling victim to cyber scams.

This project enhances online safety by integrating seamlessly into web browsers, offering a proactive defense against phishing attempts.

It highlights the importance of cybersecurity and demonstrates how AI-driven tools can empower users to browse the internet more securely and confidently.

Advanced Phishing Detection Browser Extension



CSE - IV
VEERAMADHAN S
RAJ RATHINAM S
SATHISH KUMAR S

The project **“Advanced Phishing Detection Browser Extension”** was developed by **Veeramadhan S., Raj Rathinam S., and Sathish Kumar S.**

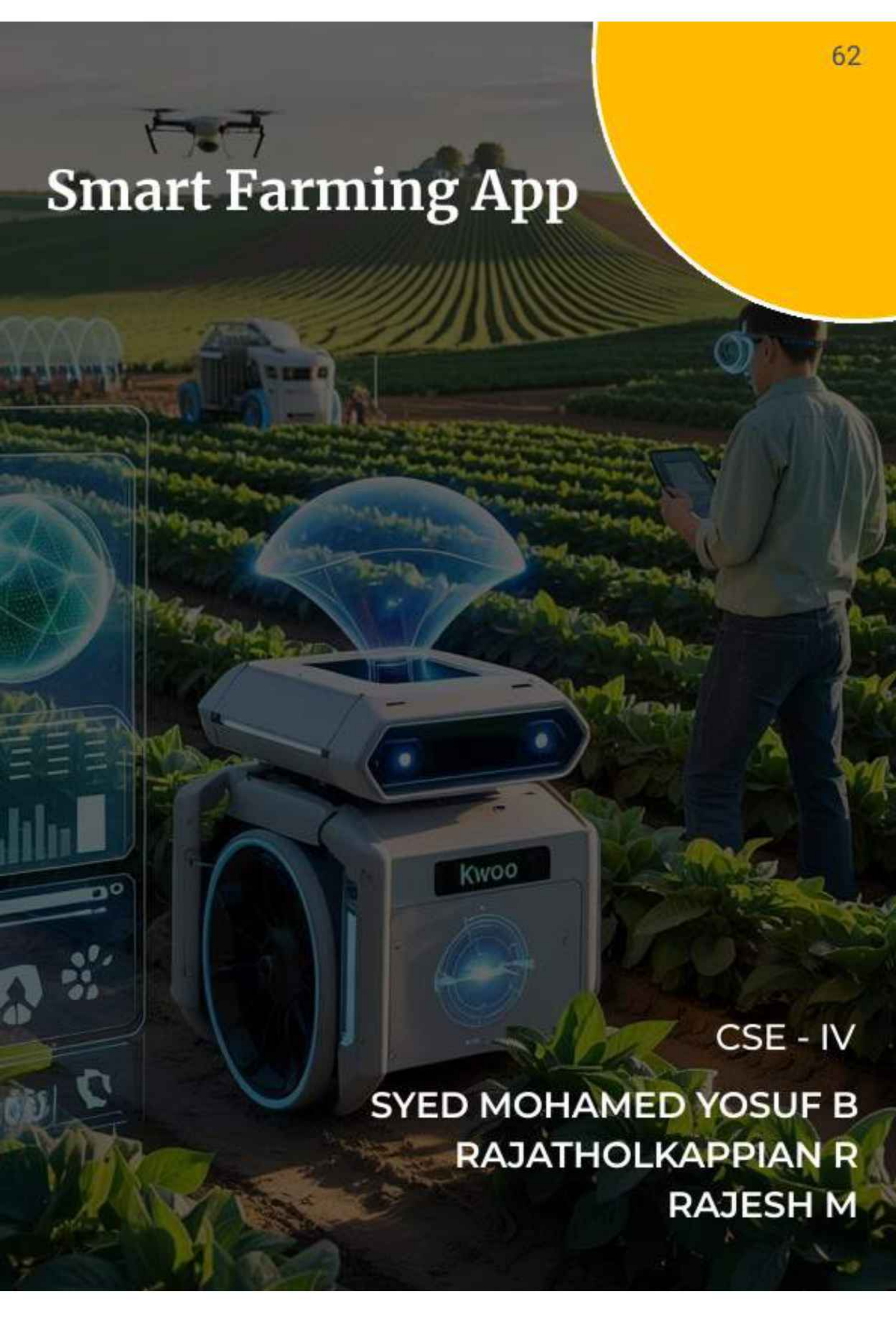
This browser extension is designed to protect users from phishing attacks by analyzing websites and URLs in real-time. It leverages advanced machine learning algorithms to detect malicious sites that attempt to steal sensitive information such as passwords and credit card details.

The extension examines features like URL patterns, domain age, and SSL certificates to accurately identify phishing threats.

When a suspicious site is detected, it alerts the user immediately and blocks access to prevent potential harm. **This proactive security tool integrates seamlessly into popular web browsers, providing users with continuous protection while browsing.**

The project highlights the importance of cybersecurity in today's digital world and demonstrates how AI-based solutions can safeguard users from evolving online threats effectively.

Smart Farming App



CSE - IV

SYED MOHAMED YOSUF B

RAJATHOLKAPPIAN R

RAJESH M

The project titled **"Smart Farming App"** was developed by **Syed Mohamed Yosuf B Rajatholkappian R and Rajesh M.**

This innovative mobile application is designed to support farmers by integrating technology into agricultural practices for improved productivity and efficiency. The app offers features such as real-time weather updates, crop recommendations, soil health monitoring, irrigation scheduling, and pest management alerts.

It uses data analytics and, where applicable, IoT integration to provide personalized farming guidance based on the user's location and crop type.

The app also connects farmers with agricultural experts, government schemes, and marketplaces to sell their produce directly. **By digitizing essential farming operations, this project aims to empower farmers with accessible, practical tools to make informed decisions, reduce costs, and increase yields.**

The Smart Farming App reflects the growing role of technology in sustainable agriculture and contributes to building a smarter, more connected farming ecosystem.

Human Scream Detection and Analysis for Reducing Crime Rates using ML

CSE - IV

RAJESH V
NANTHINIDEVI J
SANGAMITRA

The project titled "**Human Scream Detection and Analysis for Reducing Crime Rates Using Machine Learning**" was developed by **Rajesh V., Nanthinidevi J., and Sangamitra.**

This innovative system aims to enhance public safety by detecting distress screams in real-time through audio analysis.

Using machine learning algorithms, the system can accurately distinguish between normal environmental sounds and human screams that may indicate emergencies or criminal activities.

Once a scream is detected, the system can trigger alerts to nearby authorities or emergency contacts, enabling quick response and potentially preventing crimes or escalating situations.

The project involves audio signal processing, feature extraction, and classification models trained on various sound datasets to ensure high accuracy and minimal false alarms. By integrating this technology into public surveillance systems or smart devices, **the solution provides an intelligent layer of security, especially in vulnerable or isolated areas.**

AI Chatbot for Restaurants



CSE - IV

PRIYADHARSHINI R
RAJAPRAGADEESWARI R
SONIYA M

The project titled **“AI Chatbot for Restaurants”** was developed by **Priyadharshini R, Rajapragadeeswari R, and Soniya M** to enhance customer service through Artificial Intelligence.

This system allows restaurants to efficiently manage reservations, display menus, track orders, and respond to customer queries using an AI-powered chatbot.

By integrating Natural Language Processing (NLP) and Machine Learning (ML), it understands user intent and provides instant, accurate responses.

The chatbot can be embedded into websites or mobile applications, offering 24/7 service and personalized recommendations.

This project highlights how AI can automate restaurant operations, improve customer satisfaction, and modernize the dining experience.

Anti-Fraud Measures in Banking System

CSE - IV

ROSHINI A
SANDHIYA N
SIVASANKARI M

The project titled **“Anti-Fraud Measures in Banking System”** was developed **by Roshini A, Sandhiya N, and Sivasankari M** to enhance security in digital banking through intelligent fraud detection techniques.

The system uses Machine Learning (ML) algorithms to analyze transaction patterns, detect anomalies, and prevent unauthorized activities in real time.

It classifies transactions as legitimate or suspicious based on historical data and user behavior.

The project integrates data analytics, AI-based prediction models, and secure authentication methods to ensure safe financial operations.

This solution demonstrates how technology can strengthen banking systems, reduce cyber threats, and build customer trust in digital transactions.



The background image shows a modern house with a large array of solar panels on its roof. In the foreground, a hand is holding a tablet displaying a dashboard with various metrics and a circular gauge. The overall theme is sustainable technology and AI-based monitoring.

AI-Based Detection of SolarCell Defects

CSE - IV

ROSHINI G

SANTHANALAKSHMI U

SHRIVARSHINI T

The project titled **“AI-Based Detection of Solar Cell Defects”** was developed by **Roshini G, Santhanalakshmi U, and Shrivarshini T** with the objective of improving the quality and efficiency of solar energy systems using Artificial Intelligence.

The system employs Machine Learning (ML) and Image Processing techniques to automatically detect and classify defects in solar cells, such as cracks, discoloration, and surface irregularities.

High-resolution images of solar panels are analyzed using Convolutional Neural Networks (CNNs) to identify even minor defects that may affect performance.

This automation eliminates manual inspection errors, reduces maintenance time, and enhances production quality.

The model is trained on a dataset of defective and non-defective images to ensure accurate classification.

The project demonstrates how AI can contribute to sustainable energy innovation, improving the reliability and lifespan of solar cells while reducing human effort and operational costs in solar power industries.

Advanced Image Steganography Analysis using AI Algorithms in a Web Based MERN Stack Environment

CSE - IV

RESHMA S R
THARSHIKA S
VASAGI A

The project titled **“Advanced Image Steganography Analysis Using AI Algorithms in a Web-Based MERN Stack Environment”** was developed by **Reshma S R, Tharshika S, and Vasagi A** to enhance digital data security through Artificial Intelligence and modern web technologies.

This system focuses on analyzing and detecting hidden data embedded in digital images using advanced AI and Deep Learning algorithms. **By integrating the MERN Stack (MongoDB, Express.js, React.js, Node.js), the project provides a robust, scalable, and interactive web platform for secure image analysis.**

The AI model is trained to identify steganographic patterns and irregularities, ensuring high accuracy in data extraction and detection.

This approach prevents misuse of steganography for unauthorized communication while promoting ethical cybersecurity practices.

The project demonstrates the effective combination of AI, data forensics, and web development to create a reliable system for detecting hidden information in multimedia content, ensuring digital integrity and data protection.

Smart Marketplace for Farmers



CSE - IV
PRAGADESHWARAN V K
VISHNU BHARATHI R
VISHAL V

The project titled **“Smart Marketplace for Farmers”** was developed by **Pragadeshwaran V.K, Vishal V, and Vishnu Bharathi R** to empower farmers through a digital trading platform that connects them directly with buyers.

This innovative system eliminates middlemen and ensures fair pricing for agricultural products. Built using web and mobile technologies, the platform allows farmers to list their crops, track demand, and negotiate prices in real time.

The marketplace integrates AI-based recommendation systems to suggest suitable crop prices and predict market trends based on weather and seasonal data. **Secure payment gateways and user authentication ensure safe and transparent transactions.**

The project also includes features like inventory tracking, government scheme updates, and logistics support, making it a one-stop digital hub for agricultural trade.

This smart solution bridges the gap between technology and farming, promoting digital agriculture, economic growth, and sustainability for rural communities in the era of smart farming.

Food Donating App



App Mobile



DONATION FOOD

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy nibh

MORE

CSE - IV
VISHWA.B
SABARISH.S
SIVAPRAKASH.P

The Food Donating App is an innovative solution developed by **Sabarish S, Sivaprakash P, and Vishwa B** to address food wastage and hunger simultaneously.

This application connects individuals, restaurants, and organizations with surplus food to those in need, promoting a culture of sharing and social responsibility.

Users can easily list excess food items, while volunteers or recipients can view available donations in real time and coordinate pickups efficiently.

The app includes features such as location-based searches, notifications, and scheduling options to streamline the donation process.

By leveraging technology, the project not only reduces food waste but also ensures timely distribution to underprivileged communities. **The development team focused on creating a user-friendly interface, secure data handling, and seamless interactions to maximize the app's social impact.**

Car Price Prediction



CSE - IV

SANJAY R

SRIRAM S

PRASANNA VENKATESH

The Car Price Prediction project, developed by **Sanjay R, Sriram S, and Prasanna Venkatesh**, aims to accurately estimate the resale value of cars using machine learning techniques.

The system analyzes various factors such as brand, model, year of manufacture, mileage, fuel type, and transmission to predict a fair market price.

By training the model on large datasets of car listings, the app delivers reliable and data-driven price predictions.

This helps both buyers and sellers make informed decisions and ensures transparency in vehicle transactions.

The team focused on building an efficient algorithm with a user-friendly interface, enabling users to easily input details and obtain instant predictions.

This project showcases the power of AI in transforming traditional valuation methods into smarter, automated solutions.

Movie Recommendation based on Emotion using Python

CSE - IV

YOGESHWARAN R
MOHAMED HANIFA S
MOHAMED FAIZUDEEN M



Developed by **Yogeshwaran R, Mohamed Hanifa S, and Mohamed Faizudeen M**, the **"Movie Recommendation System Based on Emotion"** is an innovative project designed to personalize the film selection process.

This Python-based system uses a webcam to capture a user's real-time facial expression. Leveraging computer vision libraries like OpenCV and a deep learning model, it accurately detects the user's emotion—be it happiness, sadness, anger, or surprise.

Once the emotion is identified, the program intelligently queries a movie database to suggest films that match the user's current mood.

For example, a happy user might get recommendations for comedies or adventures, while a sad user might be shown uplifting dramas.

This intelligent system moves beyond traditional genre-based recommendations, offering a more intuitive and empathetic user experience.

Student Full Stack Project⁸²

A full stack web application seamlessly integrating front-end, back-end, and database technologies to deliver a complete and dynamic user experience.



JOB BOARD FOR COLLEGE INTERNSHIPS

CSE - III

Five Stackers Presents

Job Board for College Internshi

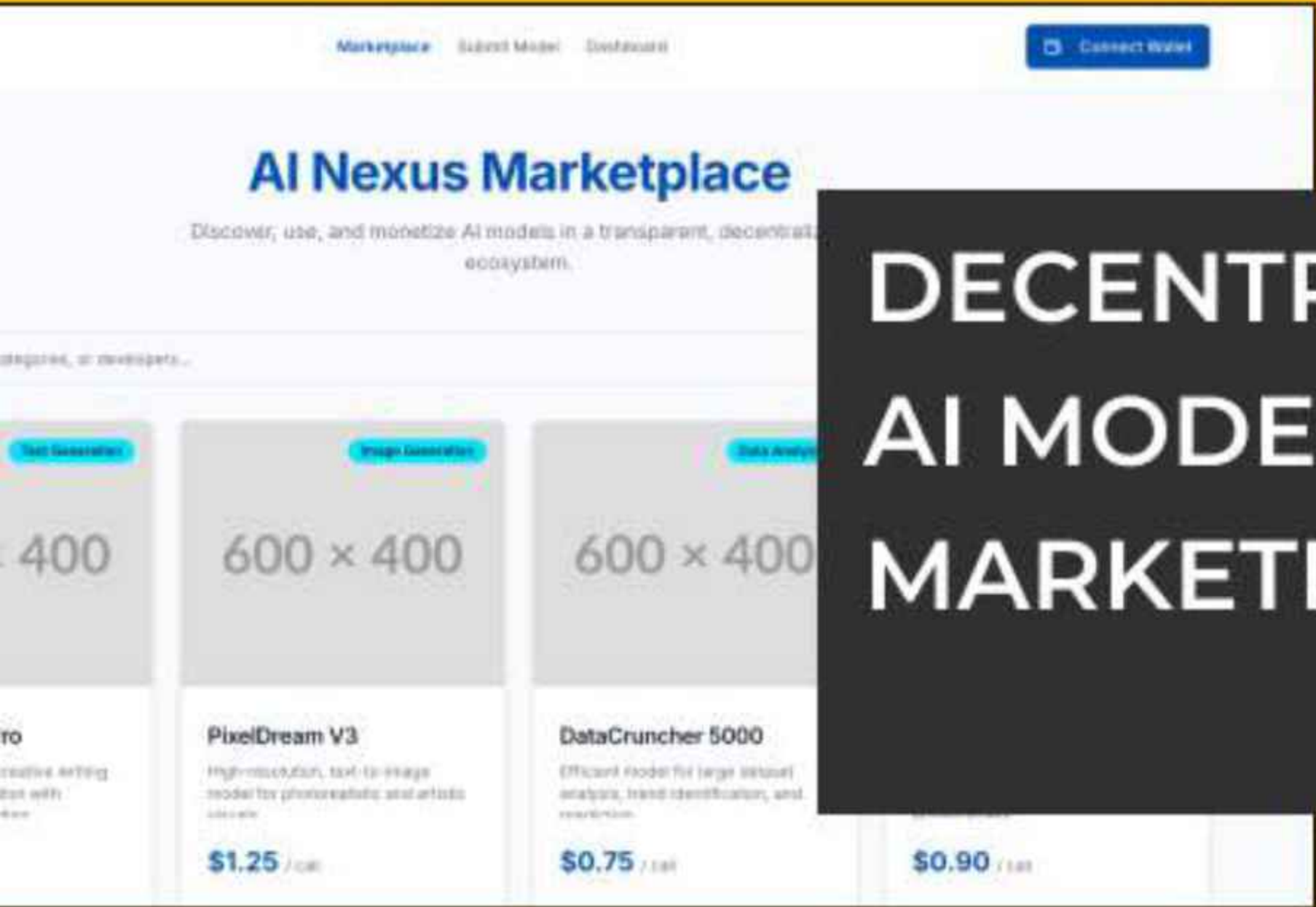
Internship List

Online platform designed to connect college students with relevant internship opportunities. It likely features a searchable list of internships to help students gain professional experience.

College Internship Job List

Company	Location	Posted
OrionSoft	Thangai	May 24, 2023
TechNova Solutions	Chennai, Tamil Nadu	May 24, 2023
DataCore Analytics	Bengaluru, Karnataka	May 24, 2023
BrightPixel Studios	Pune	May 24, 2023
CloudVest Technologies	Hyderabad, Telangana	May 24, 2023

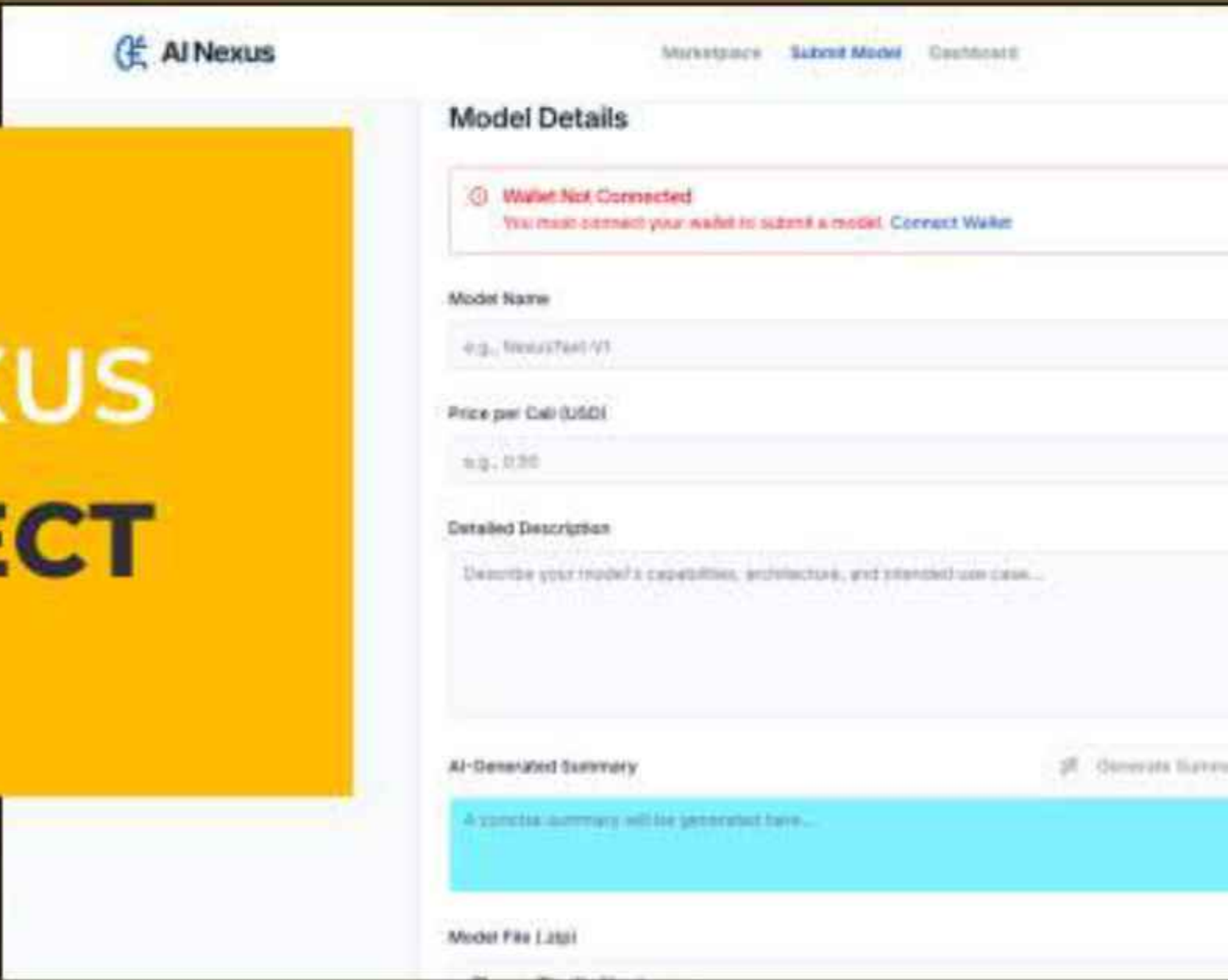
STUDENT INTERNSHIP BOARD PROJECT



DECENTRALIZED
AI MODEL
MARKETPLACE.

CSE - III

AI NEXUS
PROJECT



Governance Dashboard

Total Models

1,258

+15.2% from last month



Total Revenue

\$45,231.84

+20.1% from last month

\$

Active Developers

542

+8.5% from last month

2

Daily Transa

2,130

-15% from previous

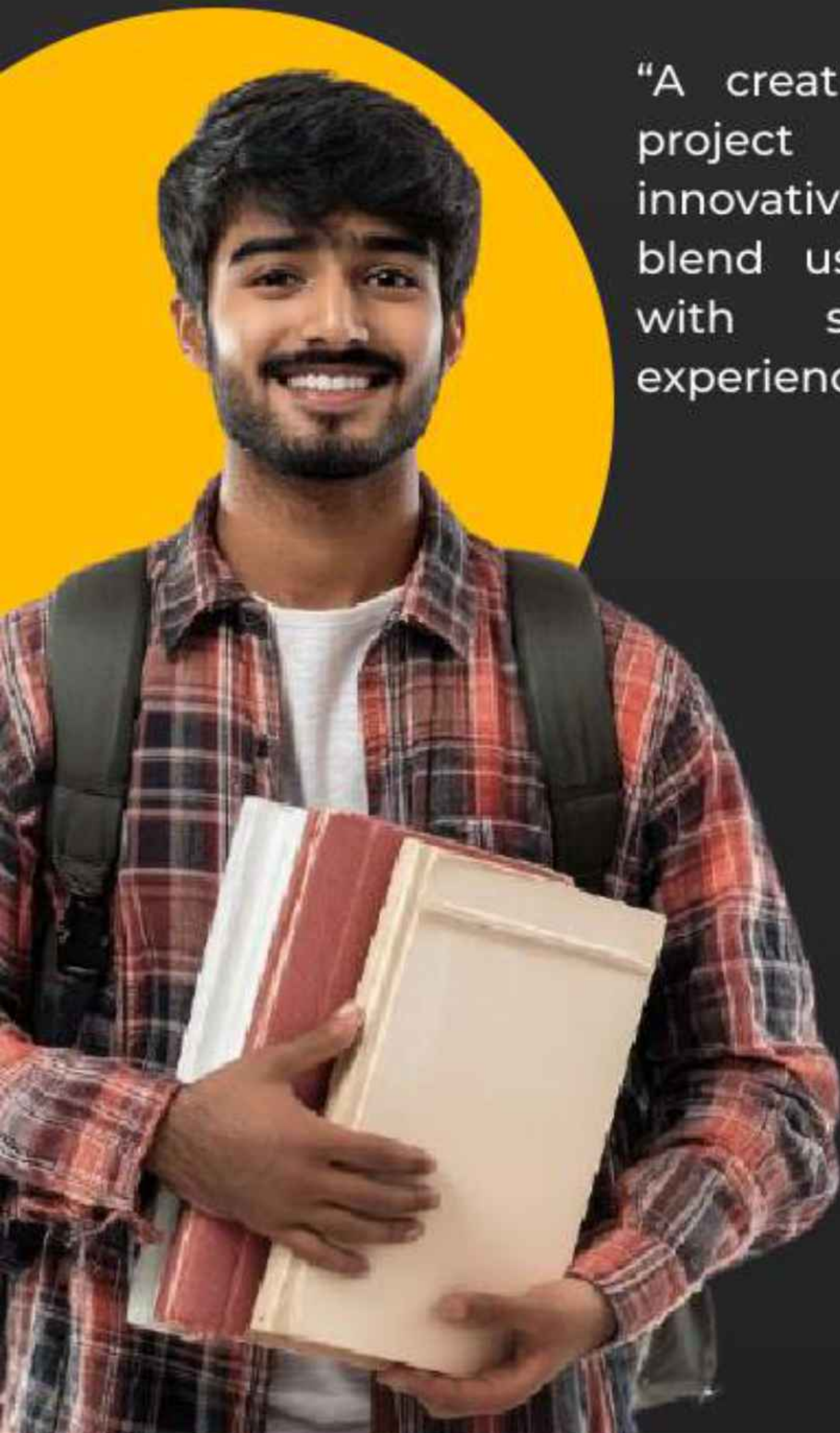
Model Submissions Over Time



This project, AI Nexus, is a decentralized AI model marketplace.

It allows users to discover, use, and monetize different AI models (like Text Generation, Image Generation, Data Analysis, and Audio Processing) in a transparent ecosystem. It also features a Governance Dashboard to track revenue, active models, and developer activity.

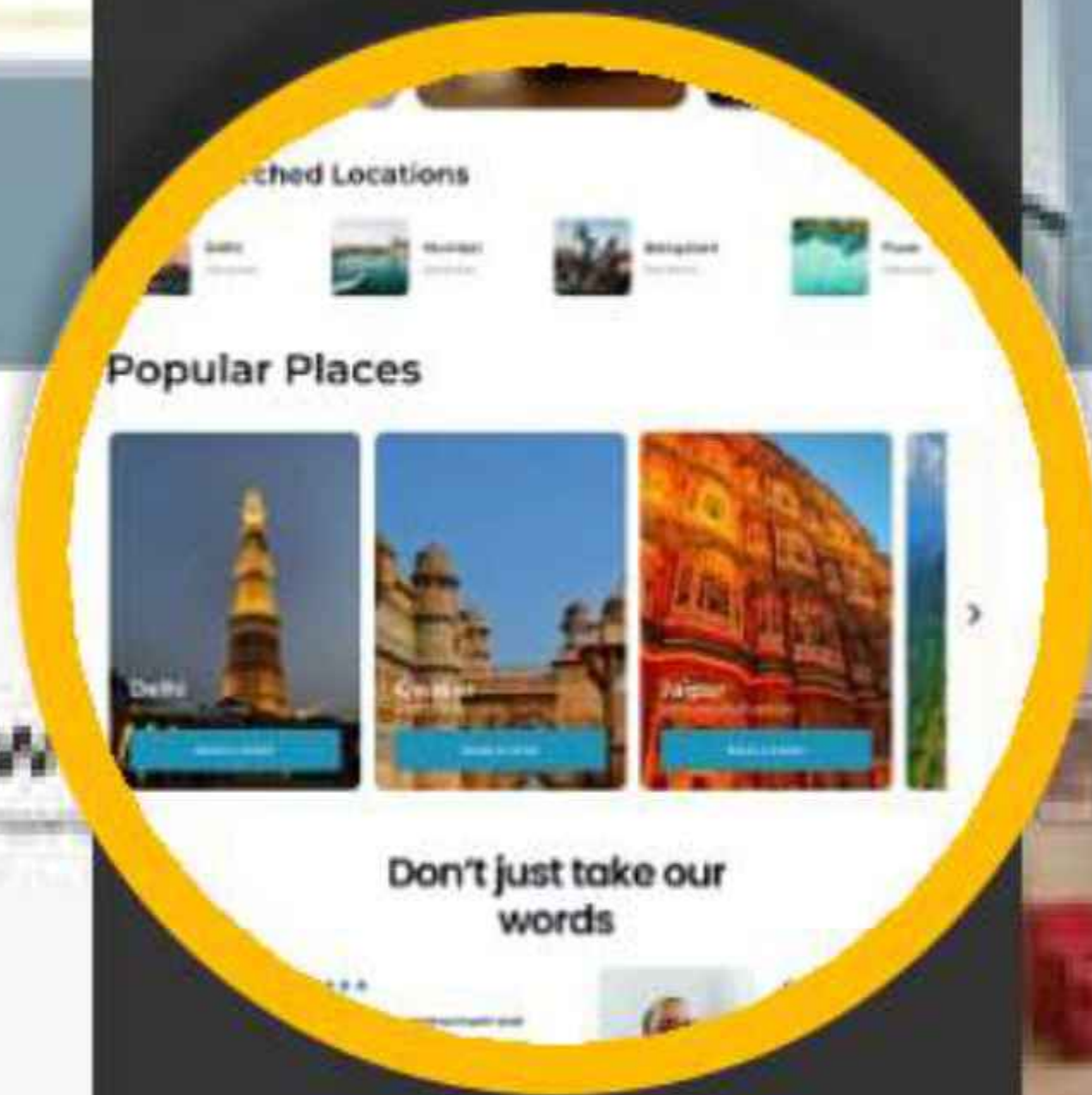
Student UIUX Designs



“A creative UI/UX design project showcasing innovative interfaces that blend user-centric design with seamless digital experiences.”



A Modern Hotel booking website



designed with an intuitive UI/UX that allows users to easily find, explore, and book properties while enjoying a seamless digital travel experience.”

Hajeera Farwin H

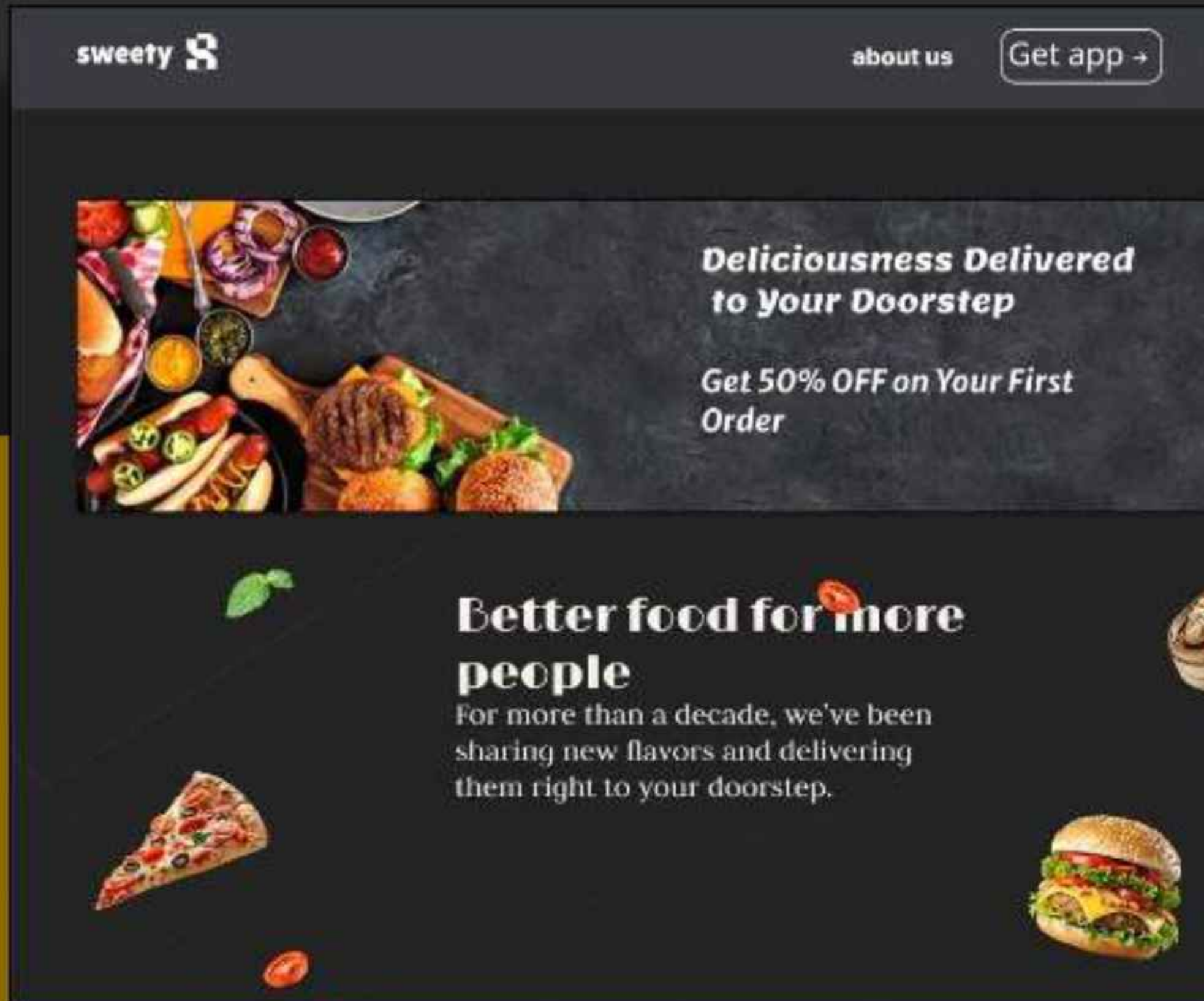


A smart Travel Booking Platform

designed to help users plan
their trips effortlessly —
from flights to hotels —
with real-time
suggestions, currency
conversion, and
destination highlights for a
perfect travel experience.

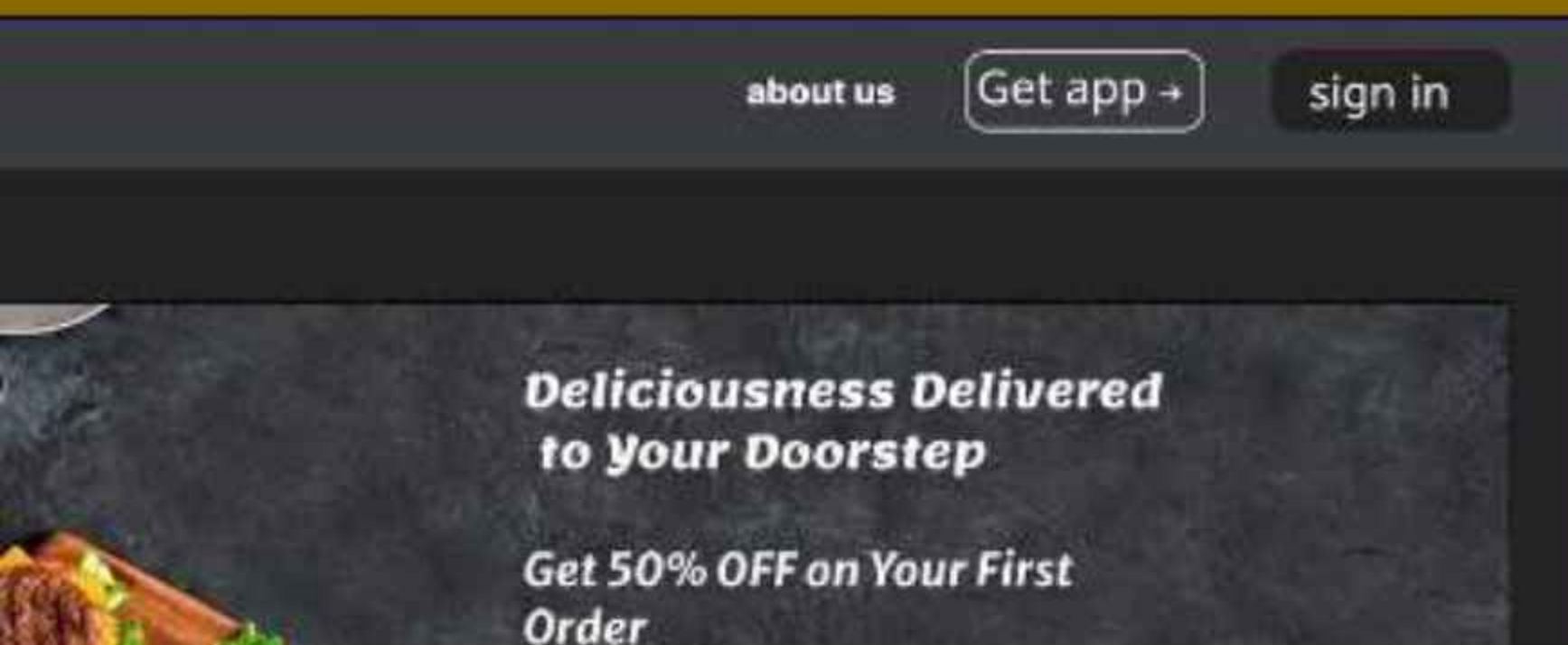


An Online Food Delivery Platform



designed to bring delicious meals to your doorstep
with an easy-to-use interface and irresistible offers.

ATHISH P



Student Certificates ⁰⁷

The student has shown dedication, discipline, and active participation throughout the duration. We congratulate and wish them success in their future endeavors.



**JULY
AUGUST
SEPTEMBER**

NPTEL Certificates

We are proud to share that our CSE students have successfully enrolled in and completed NPTEL courses.

Their commitment to continuous learning and skill development is truly commendable.

By earning NPTEL certificates, they have enhanced both their technical knowledge and practical expertise.

As a department, we strongly support such initiatives that shape future-ready professionals.

We wholeheartedly appreciate their efforts and congratulate them on this achievement.

Elite

NPTEL ONLINE CERTIFICATION
(Granted to the Well-Educated Indian)

This certificate is awarded to
DR. ANAND SWAMYDAS
for successfully completing the course

Affective Computing

with a consolidated score of **78 %**

Online Assignments	24.06/25	Proctored Exam	34.30/35
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **2318**

Dr. Anand Swamydas
Dr. Anand Swamydas
 Associate Professor
 Government College of Engineering, Salem

1st Apr 2025
 62 week(s) validity

Prof. Anand Swamydas
Prof. Anand Swamydas
 NPTEL, Bangalore
 Karnataka

NPTEL | **SWAYAM** | **SWAYAM TECHNICAL EDUCATION**

swayam

Elite

NPTEL ONLINE CERTIFICATION
(Awarded by The All-India Instt. of Technol.)

This certificate is awarded to
S NIVETHA
for successfully completing the course
Human Computer Interaction (In English)
 with a consolidated score of **85 %**

Online Assignments: 25/25	Proctored Exam: 60/75
---------------------------	-----------------------

Total number of candidates certified in this course: 2921

Dr. Anand Thirugopal
 Dr. Anand Thirugopal
 NPTEL Coordinator
 Indian Institute of Technology Bombay

16th-Apr-2025
 (12 week course)

Dr. Anand Thirugopal
 Dr. Anand Thirugopal
 NPTEL Coordinator
 IIT Bombay

swayam

Elite

NPTEL ONLINE CERTIFICATION
Initiated by the Min. of HRD, Govt. of India

This certificate is awarded to
DR ANAND SRINIVASAN P
for successfully completing the course

Effective Computing

with a consolidated score of **62 %**

Online Assignments	24/2205	Posttest Exam	37/505
--------------------	---------	---------------	--------

Total number of candidates certified in this course: 2199

Dr. Anand Srinivasan
 Chairman
 National Institute of Technology, Hyderabad

16th April 2015
 22 week (validity)

Prof. Anand Srinivasan
 IITM, Chennai

swayam

For more NPTEL courses visit www.nptel.ac.in
 For more details visit www.nptel.ac.in/certification

Elite

NPTEL ONLINE CERTIFICATION
(Funded by the MoE, Govt. of India)

This certificate is awarded to
KANMANI K
for successfully completing the course
Affective Computing
with a consolidated score of **64** %

Online Assignments	24.22/25	Proctored Exam	39.38/75
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Total number of candidates certified in this course: 3396

Jan-Apr 2025
(12 week course)

Dr. Anand Srivastava
Coordinator
Continued Education Program, IITD

Prof. Andrew Thangaraj
NPTEL, Coordinator
IT Madras

INDRAPRASTHA INSTITUTE of
INFORMATION TECHNOLOGY DELHI

swayam

Roll No: NPTEL25CS04S451900085 To verify the certificate  No. of credits recommended: 3 or 4

Elite

NPTEL ONLINE CERTIFICATION
(Funded by the MoE, Govt. of India)

This certificate is awarded to
PRIYAJANANI
for successfully completing the course
Human Computer Interaction (In English)
with a consolidated score of **79** %

Online Assignments	25/25	Proctored Exam	53.75/75
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Total number of candidates certified in this course: 3921

Jan-Apr 2025
(12 week course)

Dr. Anand Srivastava
Coordinator
Continued Education Program, IITD

Prof. Andrew Thangaraj
NPTEL, Coordinator
IT Madras

INDRAPRASTHA INSTITUTE of
INFORMATION TECHNOLOGY DELHI

swayam

Roll No: NPTEL25CS36S601900044 To verify the certificate  No. of credits recommended: 3 or 4

The Department of Computer Science and Engineering at E.G.S. Pillay Engineering College (Autonomous), Nagapattinam proudly celebrates the achievements of its students in the NPTEL (National Programme on Technology Enhanced Learning) courses.

A total of 31 students actively participated, out of which 29 successfully cleared their courses, achieving an impressive 93.5% pass rate. Students explored diverse domains such as Software Testing, Ethical Hacking, Machine Learning, Java, Python for Data Science, Cyber Security & Privacy, and The Joy of Computing Using Python.

Several students secured Elite and Silver categories, showcasing their academic dedication and technical excellence. The department not only supported their participation but also rewarded their efforts with recognition and prizes, encouraging continuous learning beyond the classroom.

This accomplishment reflects the commitment of our CSE students toward enhancing their skills and staying industry-ready, while the department remains steadfast in nurturing innovation, knowledge, and excellence.

Students

Course

Dhanush R

Software Testing

Balaumayal N

Ethical Hacking

Sivamaalini

Ethical Hacking

Ashika B

Introduction to Machine Learning

Malathi R

Introduction to Machine Learning

G B Archanaa

Introduction to Machine Learning

Harini S

Introduction to Machine Learning

Iniyan V

Introduction to Machine Learning

Bhuvaneshwari C

Programming in Java

Thennarasi V

Python for Data Science

Iniyan V

Cyber Security and Privacy

Deeksha J

The Joy of Computing Using Python

Rajesh M

The Joy of Computing Using Python

Aishwarya V

The Joy of Computing Using Python

Raj Rathinam S

The Joy of Computing Using Python

Students

Course

96

Kiruthuvi M

The Joy of Computing Using Python

Janani R

The Joy of Computing Using Python

Harini M

The Joy of Computing Using Python

Malini L

The Joy of Computing Using Python

Mageesavarthini S

The Joy of Computing Using Python

Kabilan R

The Joy of Computing Using Python

Akilan R

The Joy of Computing Using Python

Karthikeyan A

The Joy of Computing Using Python

Krishnarajan V

The Joy of Computing Using Python

Nivethithai C

The Joy of Computing Using Python

Ranjith R

The Joy of Computing Using Python

Ramesh S

The Joy of Computing Using Python

Mohammed Farves

The Joy of Computing Using Python

Nithies M

The Joy of Computing Using Python



Success Rate
Pass Percentage: 93.5%

Swayam Certificates

The SWAYAM courses in Computer Science and Engineering (CSE) provide a strong foundation for creating excellent content. Courses in areas like Programming (Python, C++), Data Structures and Algorithms, Artificial Intelligence (AI), and Cyber Security equip you with specialized technical knowledge.

To enhance your content creation skills, consider SWAYAM's courses on E-Content Development, which teach digital design, multimedia tools, and instructional strategy. This combined technical and pedagogical knowledge will make your content clear, engaging, and highly valuable.



SWAYAM ONLINE COURSE CERTIFICATION



*This certificate is awarded to
Jamaliya A
for successfully completing the 4 credit course
Programming in Python
with a consolidated score of 89%
from the evaluation based on continuous online assessments and the proctored
examination held in month of May 2025.*



Roll No. : TN9210C023

This course was offered by Dr. Rizwan Rehman of Dibrugarh University

Marks in Online Assignments		Marks in Proctored Exam		Total Score	
Total	Obtained	Total	Obtained	Total	Obtained
30	30	70	59	100	89

J. B. Naidu
National Coordinator
Consortium for Educational Communication (CEC),
New Delhi



Dr. Prasanta Kr. Kakoty
Controller of Examinations
Dibrugarh University, Assam

Issued On : 11/07/2025

To validate and check scores: <https://swayam.gov.in>



SWAYAM ONLINE COURSE CERTIFICATION



*This certificate is awarded to
S Habeeb Hasan
for successfully completing the 4 credit course
Programming in Python
with a consolidated score of 69%
from the evaluation based on continuous online assessments and the proctored
examination held in month of May 2025.*



Roll No. : TN14101554

This course was offered by Dr. Rizwan Rehman of Dibrugarh University

Marks in Online Assignments		Marks in Proctored Exam		Total Score	
Total	Obtained	Total	Obtained	Total	Obtained
30	30	70	39	100	69

J. B. Naidu
National Coordinator
Consortium for Educational Communication (CEC),
New Delhi



Dr. Prasanta Kr. Kakoty
Controller of Examinations
Dibrugarh University, Assam

Issued On : 11/07/2025

To validate and check scores: <https://swayam.gov.in>

08 Student Sports



A Champion in Sports

EGS Pillay Engineering College actively champions holistic student development through robust sports programs. Our students consistently participate, compete, and excel in numerous events, bringing home laurels.

The college has secured the prestigious Anna University Sports Zonal Winner title multiple times, including recent years like 2024 and 2023.

Students shine across various disciplines like Cricket, Basketball, Chess, and Ball Badminton, showcasing their dedication and competitive spirit. The college provides excellent facilities, including an Indoor Stadium, and special training to encourage talented athletes.

This focus ensures our students not only gain academic knowledge but also build discipline, teamwork, and leadership through winning performances in sports.



On 17th September 2025, EGSPEC College proudly received the prestigious Annual Sports Award from the Anna University Sports Board, marking a significant milestone in the college's sporting journey. This esteemed recognition celebrated EGSPEC's remarkable achievements and unwavering commitment to excellence in athletics throughout the academic year. The award highlighted the college's dedication to nurturing talent across a wide array of sports disciplines, fostering teamwork, discipline, and outstanding sportsmanship among its students. The event was a proud occasion for the entire EGSPEC community, honoring the relentless efforts of athletes, coaches, and support staff who have contributed to the college's success in various inter-college competitions. Receiving this accolade from Anna University not only reinforced EGSPEC's reputation as a leading sports institution but also inspired the students and faculty to pursue even greater heights in both sports and academics. The recognition on this special day serves as a motivating force, encouraging future generations to embody the spirit of perseverance, dedication, and collaboration that defines EGSPEC College's sporting legacy.



The CSE students of EGSPEC College showcased exceptional intellectual strength by clinching the championship titles in both the men's and women's chess competitions for the 2025-2026 academic year. Throughout the tournament, the players demonstrated remarkable strategic thinking, deep concentration, and impressive foresight, allowing them to anticipate and counter their opponents' moves with precision. Their ability to carefully plan several moves ahead and adapt to evolving game situations was instrumental in overcoming some of the toughest competitors.

The CSE students of EGSPEC College showcased exceptional intellectual strength by clinching the championship titles in both the men's and women's chess competitions for the 2025-2026 academic year. Throughout the tournament, the players demonstrated remarkable strategic thinking, deep concentration, and impressive foresight, allowing them to anticipate and counter their opponents' moves with precision. Their ability to carefully plan several moves ahead and adapt to evolving game situations was instrumental in overcoming some of the toughest competitors. Both the men's and women's teams exhibited patience and resilience, often turning seemingly difficult positions into winning opportunities through sharp tactics and creative problem-solving.

Our Winning Stars



E.G.S PILLAY ENGINEERING COLLEGE
An Autonomous Institution | Affiliated to Anna University
Accredited by NBA & NAAC with Grade 'A++'

TOP INSTITUTIONS
IN CAUVERY
DELTA ZONE

CELEBRATING
SUCCESS

Congratulation

ANNA UNIVERSITY ZONE – 15

CRICKET MEN

Winners






[@egspillay_group_of_institution](https://www.instagram.com/egspillay_group_of_institution)

admissions.egspgroup.in


Admission Office

For Admission Contact

Visit Our Institutions Website

The men's cricket team of the CSE department at EGSPEC College delivered an outstanding performance to clinch the championship title in the 2025-2026 academic year. Throughout the tournament, the team demonstrated exceptional talent, teamwork, and strategic acumen, consistently outperforming their opponents with a combination of powerful batting, precise bowling, and agile fielding. Their ability to remain composed under pressure and execute well-thought-out game plans played a crucial role in their success, allowing them to secure important victories in tight matches. Each player brought unique strengths to the team, whether it was through explosive batting innings, taking key wickets at critical moments, or saving runs with sharp fielding.



The volleyball team of EGSPEC College proudly emerged as the champions in this year's highly competitive tournament, marking a remarkable achievement for both the players and the institution. From the very start, the team showcased exceptional

skill, agility, and strategic gameplay, impressing both spectators and competitors alike. Their ability to communicate effectively on the court and maintain strong teamwork proved to be a key factor in their success. Each player brought dedication and passion, consistently pushing their limits during intense matches against some of the strongest teams in the region. Throughout the tournament, the EGSPEC volleyball team demonstrated not only physical strength but also mental resilience, staying focused under pressure and quickly adapting to their opponents' tactics. Their hard work during training sessions clearly paid off, as they executed flawless serves, powerful spikes, and solid defensive plays. Beyond their athletic talents, the players showed exemplary sportsmanship, supporting one another and representing the college with pride and respect. This victory has brought immense pride to the entire EGSPEC community, inspiring future athletes and reinforcing the college's commitment to excellence in sports. The team's achievement is a testament to their perseverance, teamwork, and passion for volleyball, making them well-deserved champions and role models for all.



The badminton team of EGSPEC College for the 2025-2026 academic year has made an outstanding mark by winning the championship with sheer skill, determination, and teamwork. Throughout the tournament, the players displayed remarkable agility, precision, and strategic thinking, which allowed them to outplay strong and experienced opponents. Their powerful smashes, quick reflexes, and impeccable footwork were key elements that helped secure their victories in intense matches. Each member of the team brought not only technical expertise but also mental toughness, staying focused and composed even under high-pressure situations. The success of the team is a result of countless hours of rigorous practice, dedication, and a deep passion for the sport. What stood out most was their strong sense of camaraderie and sportsmanship, as they supported one another on and off the court, fostering a positive and motivating environment. This championship win is a proud moment for the College, showcasing the strength and potential of its athletes. Their achievement inspires the entire college community and sets a high benchmark for future badminton players.

Our Winning Stars



The CSE students of EGSPEC College made history in the 2025–2026 academic year by claiming the football championship title, showcasing exceptional skill, strategy, and teamwork. From the very first match, the team demonstrated a strong sense of unity and determination, executing well-planned strategies with precision and confidence. Their gameplay was a fine balance of sharp passing, solid defense, and relentless attacks that left their opponents struggling to keep up. Each player played a vital role, contributing not only with their physical performance but also with smart decision-making and strong communication on the field. The team's dedication to practice and their passion for the sport were clearly visible in their consistent performances throughout the tournament. Their ability to stay composed under pressure, adapt to changing game situations, and support one another made them stand out as true champions. Off the field, their discipline and sportsmanship earned respect from peers, opponents, and faculty alike. This remarkable achievement has brought immense pride to the CSE department and the entire EGSPEC community. Their victory is a reflection of hard work, unity, and a winning mindset, serving as an inspiration for future students and athletes across the college.

E.G.S Pillay's Sports Sweep

E.G.S Pillay Engineering College proudly congratulates our phenomenal student-athletes on their success at the Anna University Zone - 15 Tournaments!

We celebrate the victorious Volleyball and Cricket Men's Teams for clinching the championship titles, demonstrating extraordinary teamwork and relentless spirit.

Our skilled players in Badminton, Table Tennis, and Chess also excelled, showcasing their talent, speed, and strategic minds.

From the Management, Faculty, and Staff: **We wish all players continued success.**

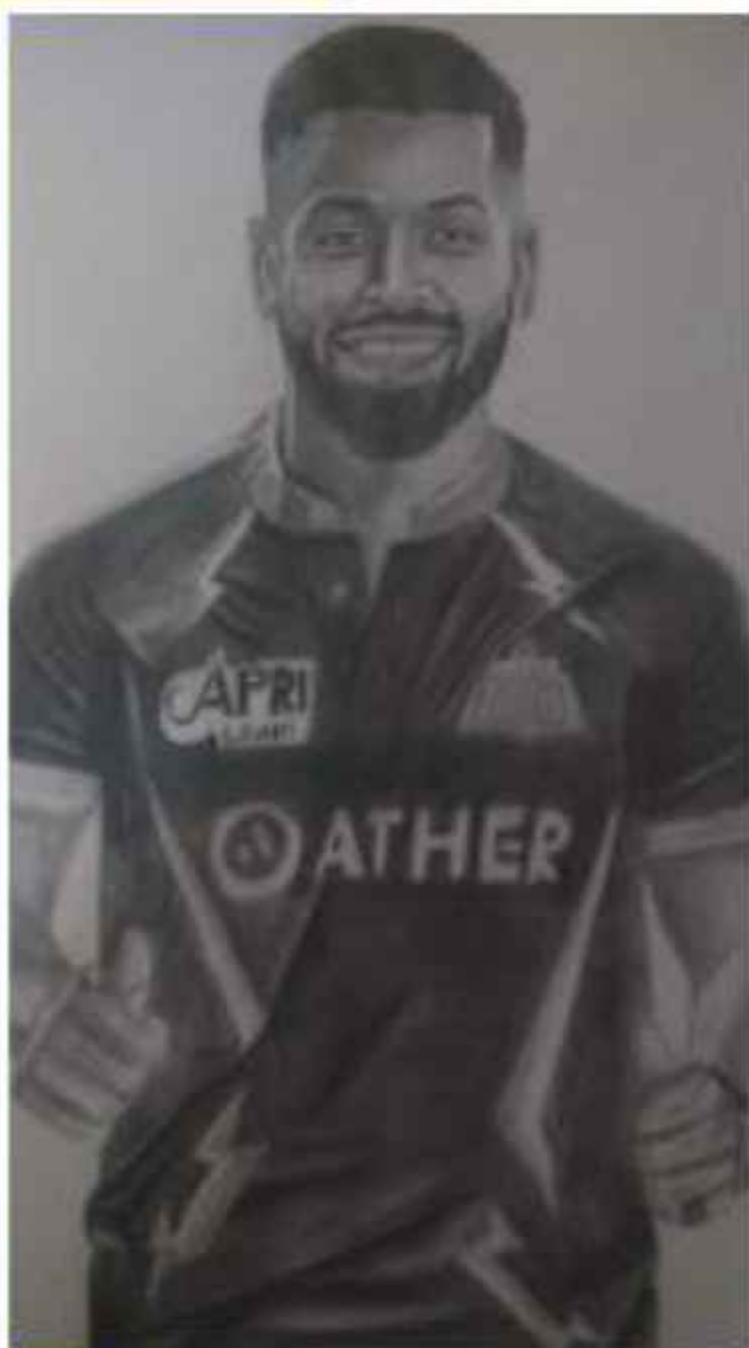
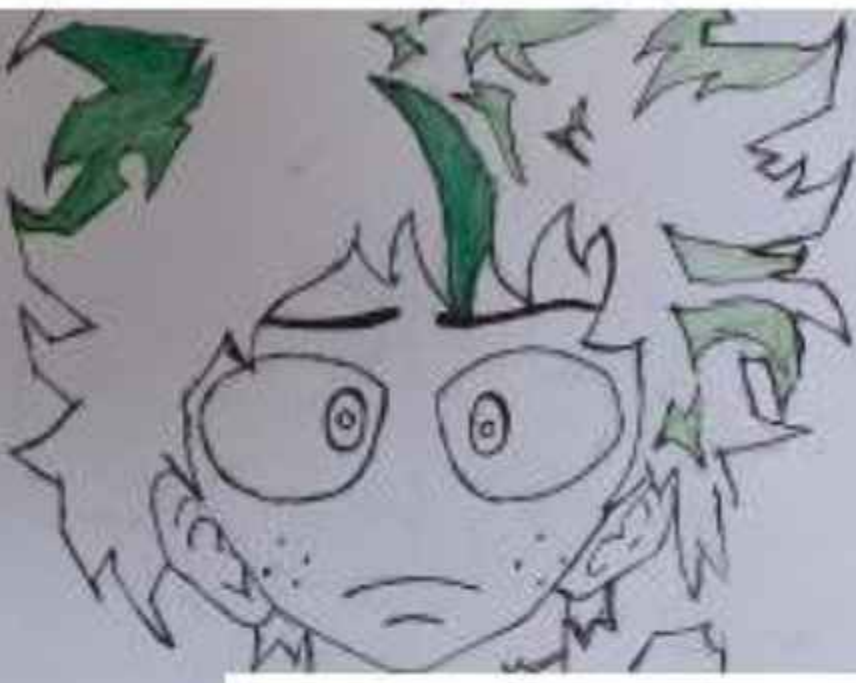
May you carry this dedication, discipline, and winning attitude into every future endeavor! Keep inspiring us with your greatness!

09

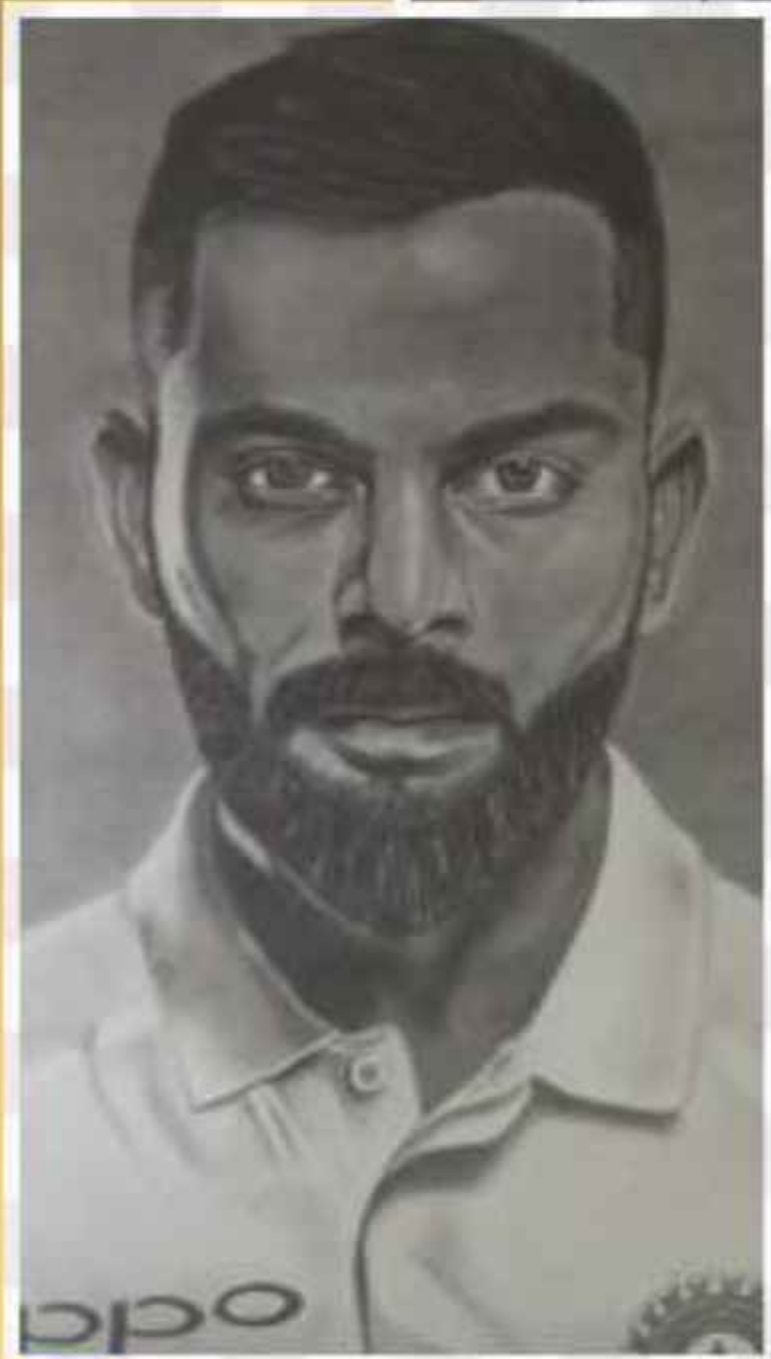
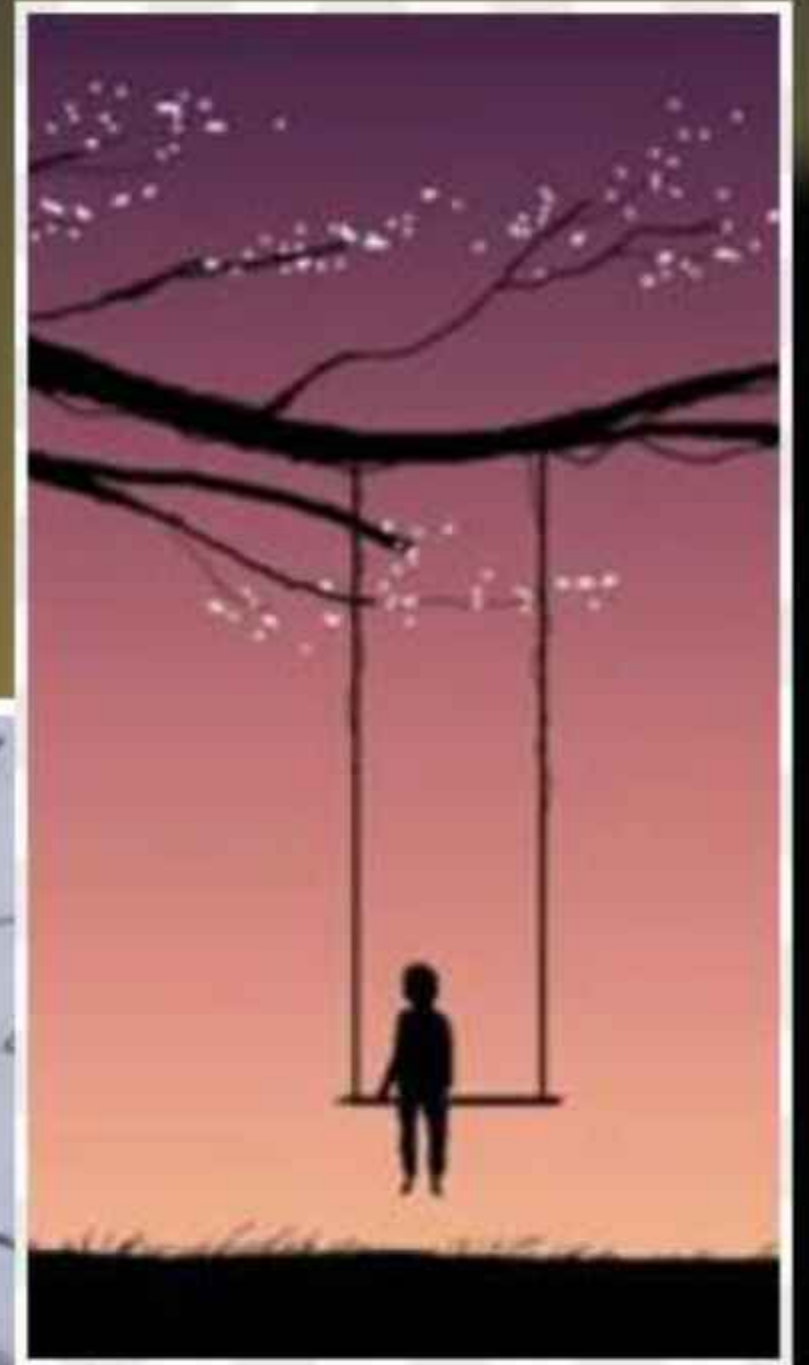
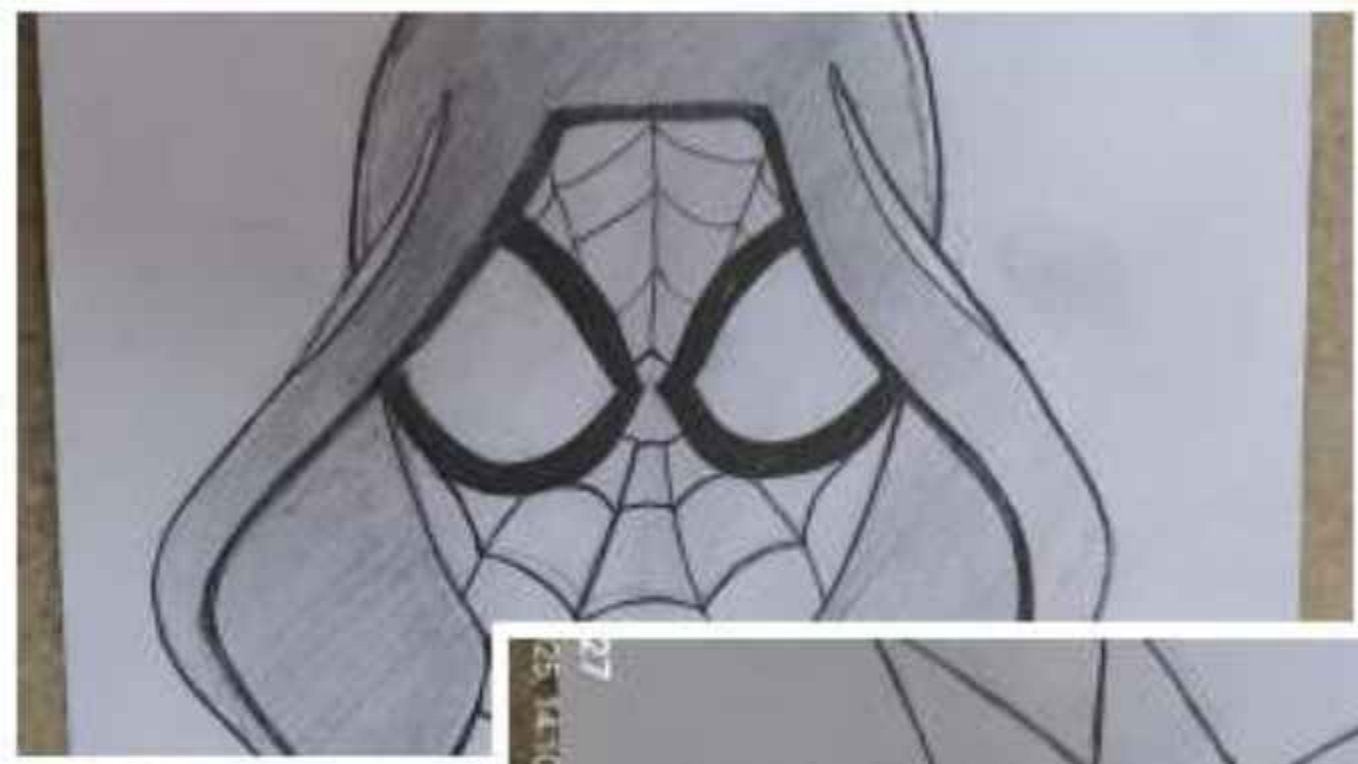
Student Gallery

Step into our Student Art Gallery! Explore a vibrant collection of paintings, sculptures, and digital art celebrating the talent and creativity of our students.

Aakash CSE - II



Aakash CSE - II



10 STUDENT INTERNSHIP

01 "Internship at (Advanced Manufacturing Technology Development Centre)"



We, **Sri Jagan G, Mohamed Farves Y Vishal Sahar R.P, and Harrish Ragavan S**, final-year students of the Department of Computer Science and Engineering at EGS Pillay Engineering College, Nagapattinam, had the valuable opportunity to complete our internship during July 2025 at Advanced Manufacturing Technology Development Centre.

This internship gave us a platform to bridge the gap between academic learning and real-world applications.

We were exposed to the latest trends in advanced technologies and gained practical insights into how innovative solutions are developed and implemented in the industry. The experience enhanced our technical skills, problem-solving abilities, and teamwork, while also giving us a deeper understanding professional work culture throughout the internship, we had hands-on exposure to various tools and methodologies used in the industry.

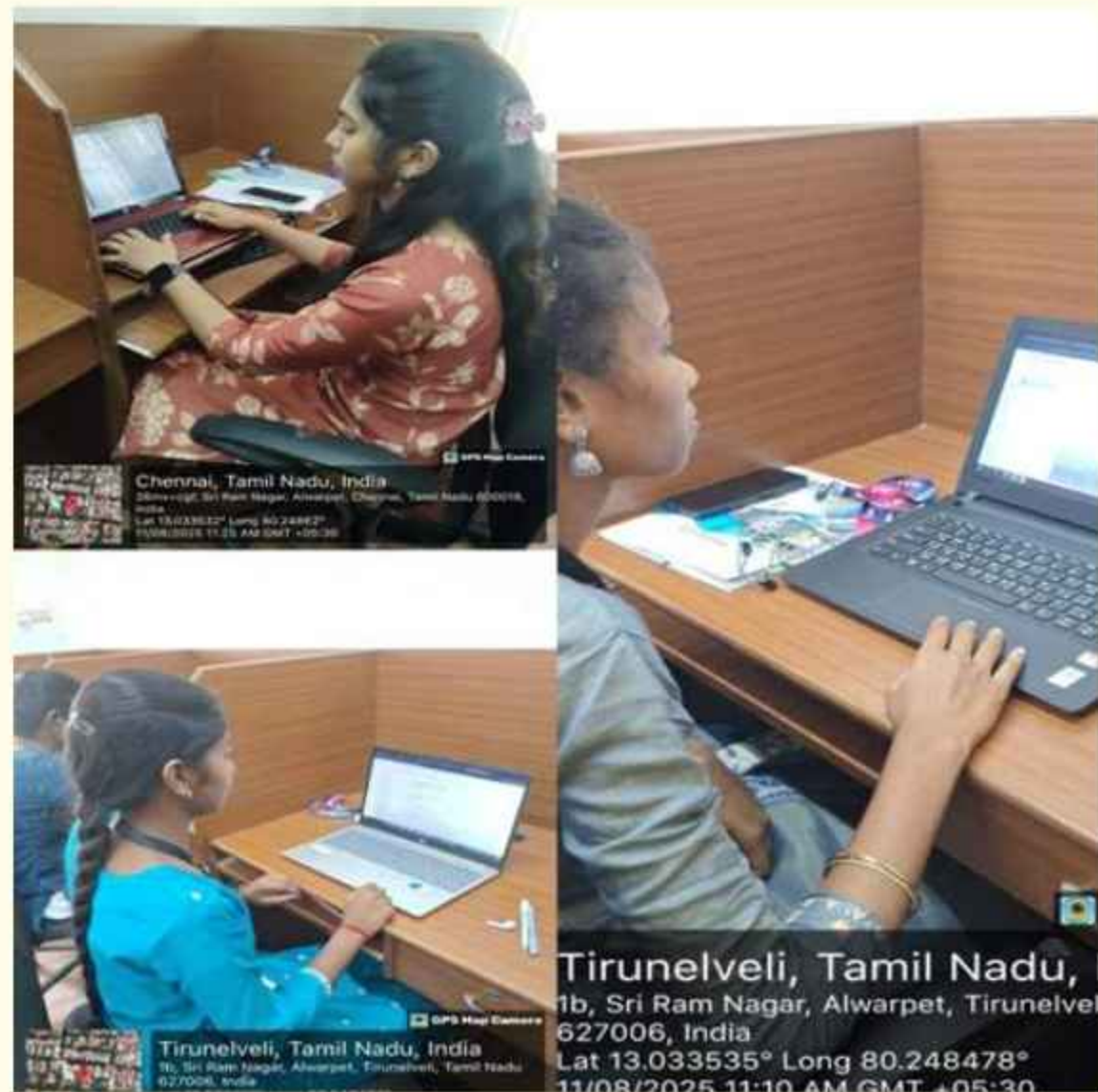


02 “Shaping Skills, Building Careers: Our Internship at Positive Integers”



We, **M.Asha,T. Shrivarshini, L.Malini,J.Ananthavalli,S.Sithitha and M.Sivasankari**, final-year CSE students of EGS Pillay Engineering College, Nagapattinam, had the wonderful opportunity complete

internship at Positive Integers, IITM Research Park,Chennai,from 11th August 2025 to 25th August.environment and helped us bridge the gap between academic learning and industry practice. our understanding of software development, problem-solving, and teamwork. The guidance provided by mentors and professionals at the company was highly insightful and motivated us to think creatively and improve our technical skills. We sincerely thanks to Positive Integers, for this internship offer.



11

VALUE ADDED COURSES

01 “Foundation of artificial intelligence & green skills using python”



The training provided learners with core knowledge of Artificial Intelligence (AI) and hands-on skills in Python programming. It introduced key concepts like machine learning, data analysis, and automation, while encouraging sustainable and ethical AI solutions to address real-world challenges.



02 “Hands on workshop on Docker and it’s application’s”



EGS PILLAY
ENGINEERING COLLEGE
BANGALURU

Department of Computer Science and Engineering
Organized

Workshop on
"HANDS ON WORKSHOP ON DOCKER"

 **Chief Guest** 



Mr.Suresh Marikkannu
Research Engineer
Intel Technologies India LTD - Bangalore.

DATE/TIME
29 Sep 2025, Monday
Starts at 09:00am

VENUE
Placement Lab

Coordinators
Mrs.B.Ranjani
AP / CSE, EGSPEC

Mrs.J.Aisha Nelofer
AP / CSE, EGSPEC

Convener
Dr.R.Manivannan
Professor & Head
CSE - EGSPEC

The Department of CSE organized a Hands-On Workshop on Docker on 3rd August 2025 for III-year students. The program introduced containerization and its role in software development and cloud infrastructure.The objective was to give students practical knowledge of Docker, covering container creation, deployment,

and management. The session highlighted how Docker improves scalability, portability, and efficiency in real-world projects. The workshop was conducted by **Mr. Suresh Marikkannu**, Research Engineer, Intel Technologies India Ltd., Bangalore, who shared industry practices and provided live demonstrations.



A total of **75 students** attended. Participants learned about Docker architecture, images, containers, and how Docker differs from virtual machines.hands-on practice, students created and managed containers, deployed sample applications, and gained confidence in work on Devops.

03 “OBE Awareness program”



An OBE (Outcome-Based Education) Awareness Program was conducted on the 29th and 30th of September 2025 for the first-year CSE students (A, B, and C sections) at EGS Pillay Engineering College. The program was organized by the Department of Computer Science and Engineering with the objective of introducing students to the concept of Outcome-Based Education and its importance in their academic journey. handled by **Dr. M. Priya (Professor)**, **Dr. S. Subashree (Associate Professor)**, and **Dr. J. Noorul Ameen (Assistant Professor)** from the CSE dept.

During the workshop, students were introduced to the **fundamental principles of OBE** and how it differs from traditional education methods. The speakers explained the concept of **Program Outcomes (POs)**, **Program Specific Outcomes (PSOs)**, and **Course Outcomes (COs)** in a clear and structured manner. They emphasized how each CO is carefully mapped to POs and PSOs, ensuring that learning objectives are achieved with measurable accuracy.

12

CLUB ACTIVITIES

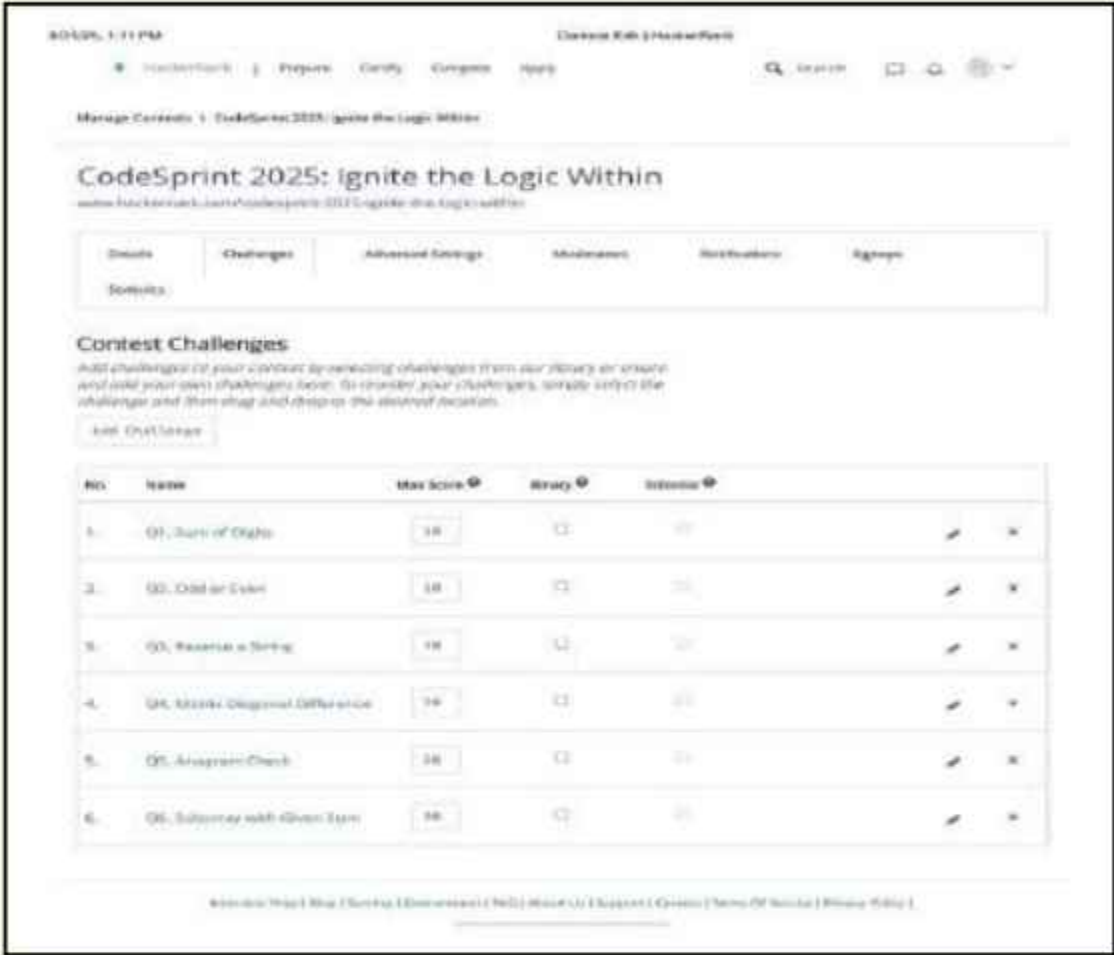
01 “Real-Time Web Development Basics: Creating Interactive Page”



The webinar on **“Real-Time Web Development Basics”** Creating Interactive Pages with “HTML” & “CSS” received an excellent response from the participants. Students appreciated the clear explanations and practical demonstrations that helped them understand how HTML and CSS work together to create dynamic and visually appealing web pages.

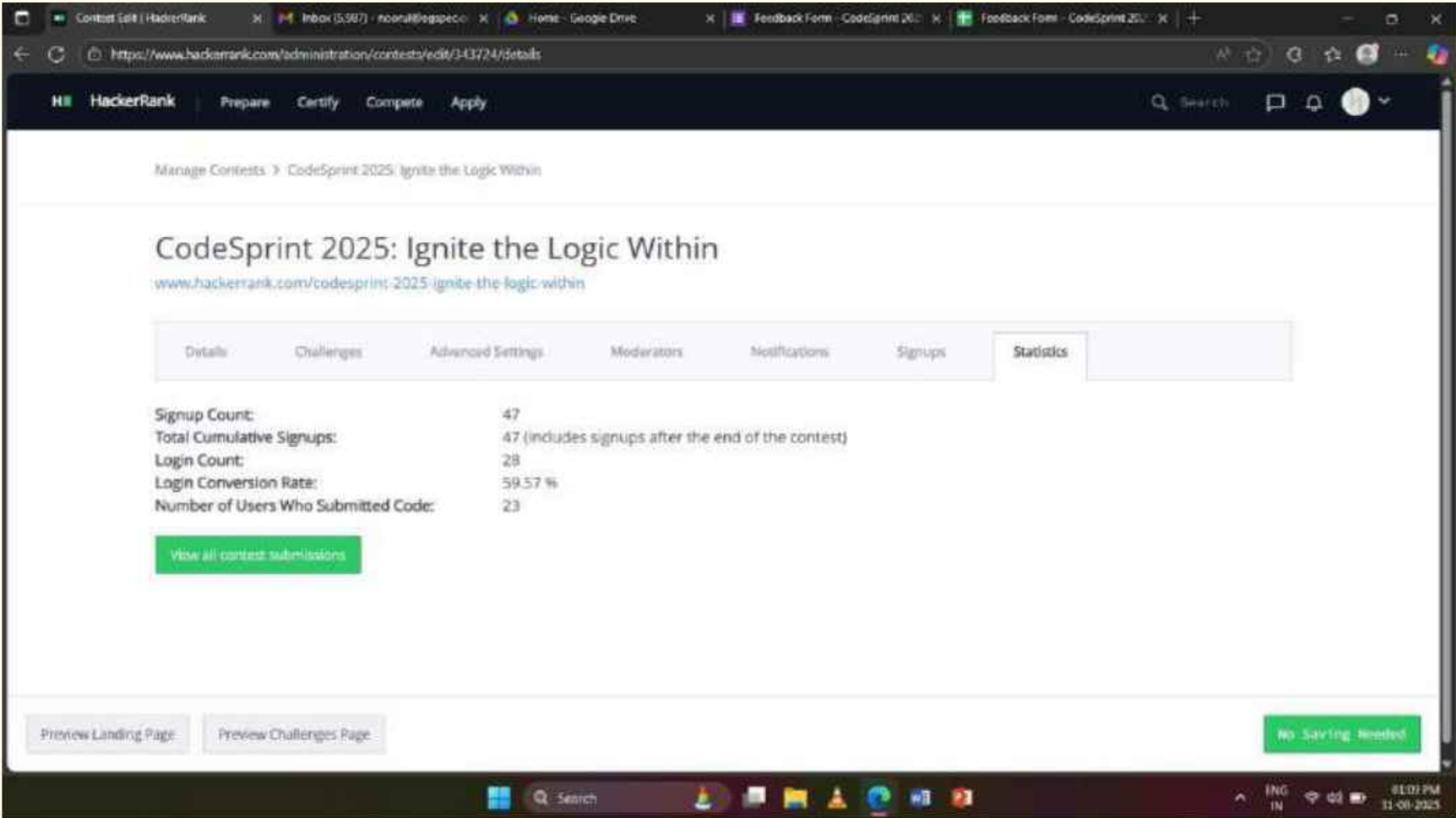
session was highly interactive, encouraging participants to experiment with live coding examples. Overall, the event provided valuable insights into modern web development practices and inspired many students to further explore the world of front-end design and development. many attendees shared that workshop boosted their confidence to design their own web pages and deepened their interest in front-end web development. The session concluded with an interactive allowing participants to clarify their doubts and share their creative ideas. Overall, event was a great success, fostering technical learning and creativity among students while highlight the importance of web DEV skills in the modern digital world.

02 “CODESPRINT 2025: Igniting Innovation through Coding Excellence”



CODESPRINT 2025 was conducted as an engaging and insightful webinar that attracted a large number of students and tech enthusiasts from the department. The event aimed to explore the latest trends in coding, problem-solving, and software innovation.the webinar allowed attendees to activitely participate, ask questions, and discuss emerging technologies and coding

practices. Overall, CODESPRINT 2025 proved to be a successful and motivating event that enhanced students’ technical knowledge, fostered teamwork, and ignited a passion for continuous learning and innovation in the field of computer science.

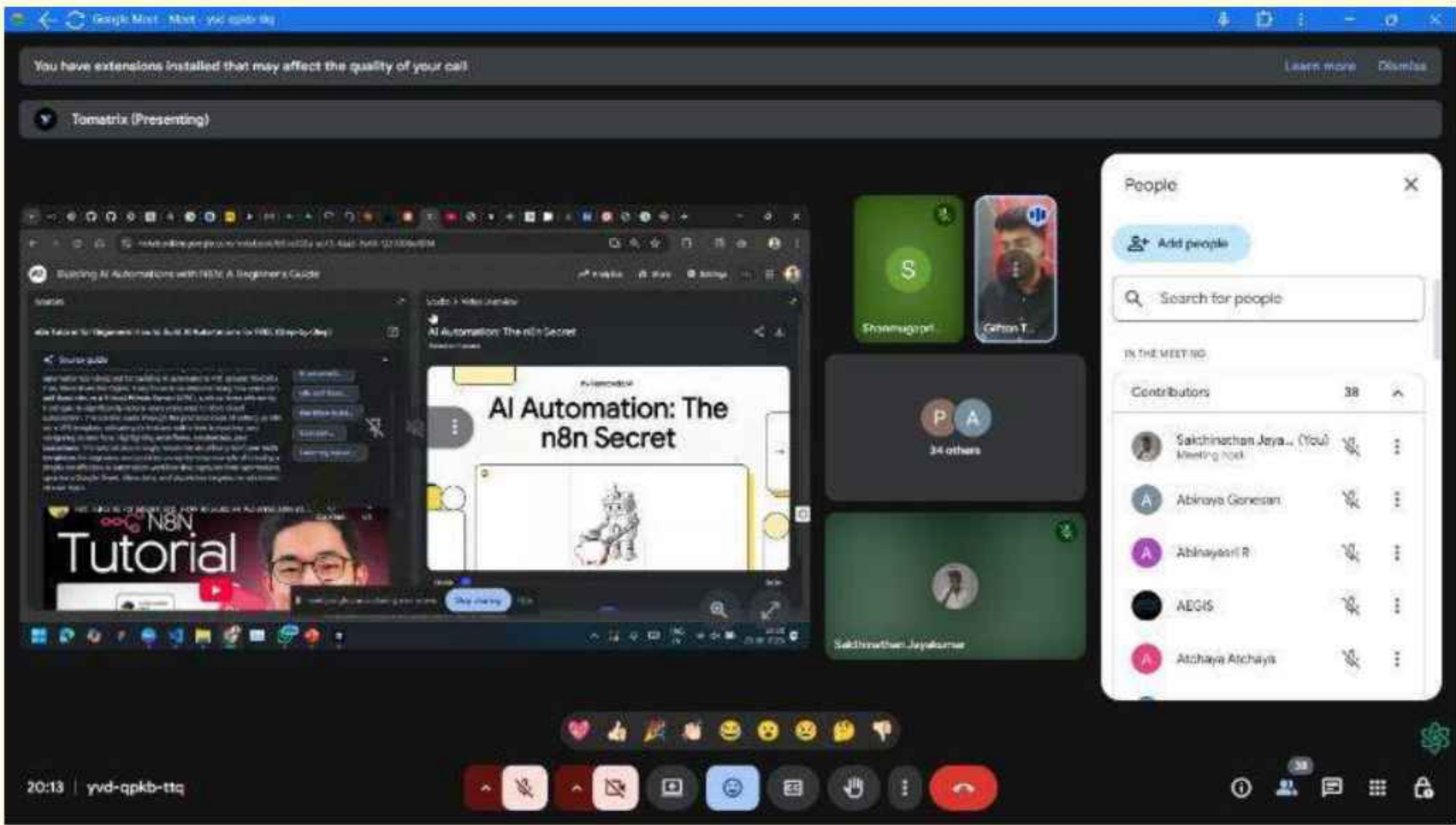


03 “Innovating Mobile Apps with AI: Flutter App Development Webinar”



The webinar on “Flutter App Development using AI” was an enlightening session that attracted students and tech enthusiasts eager to explore the intersection of mobile app development and Artificial Intelligence. The event provided a comprehensive overview of how AI can be integrated into Flutter applications to enhance. Participants gained practical

insights into real-world use cases, learning how AI-powered features such as smart recommendations, predictive analytics, and intelligent chatbots can be implemented within cross-platform apps. The session also highlighted best practices, coding tips, and efficient strategies.

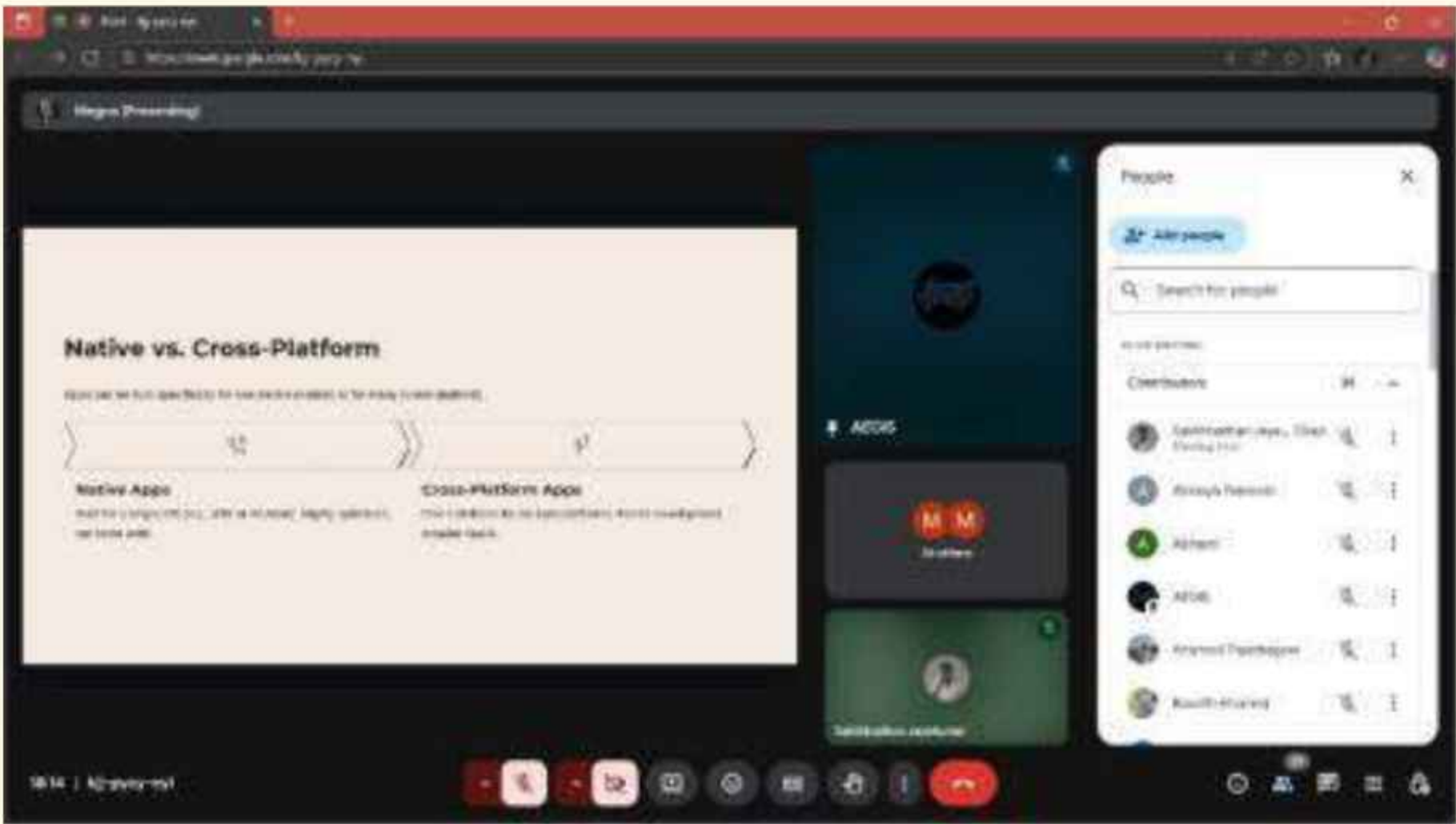


04 “Exploring Mobile App Development: Introduction to Flutter and Dart”

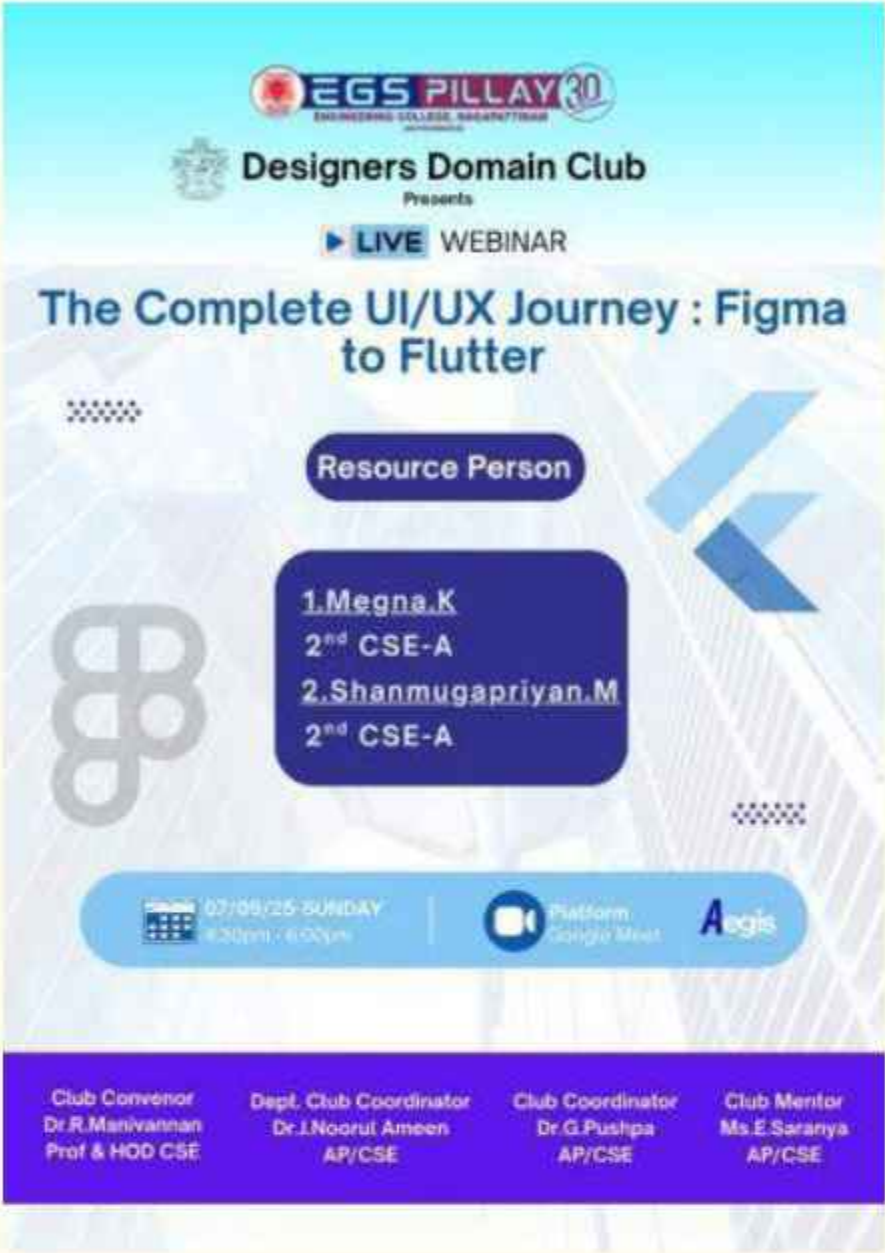
The webinar on “Introduction to Flutter and Dart” provided an excellent platform for students to gain foundational knowledge in cross-platform mobile app development. The session introduced participants to the Dart programming language and the Flutter framework, focusing on widget creation, UI design, and app deployment for both Android and iOS platforms.



Participants appreciated the hands-on approach, which allowed them to practice building responsive and high-performance applications in real time. The resource person explained complex concepts in a simple and engaging manner, helping students understand the synergy between Dart and Flutter in creating

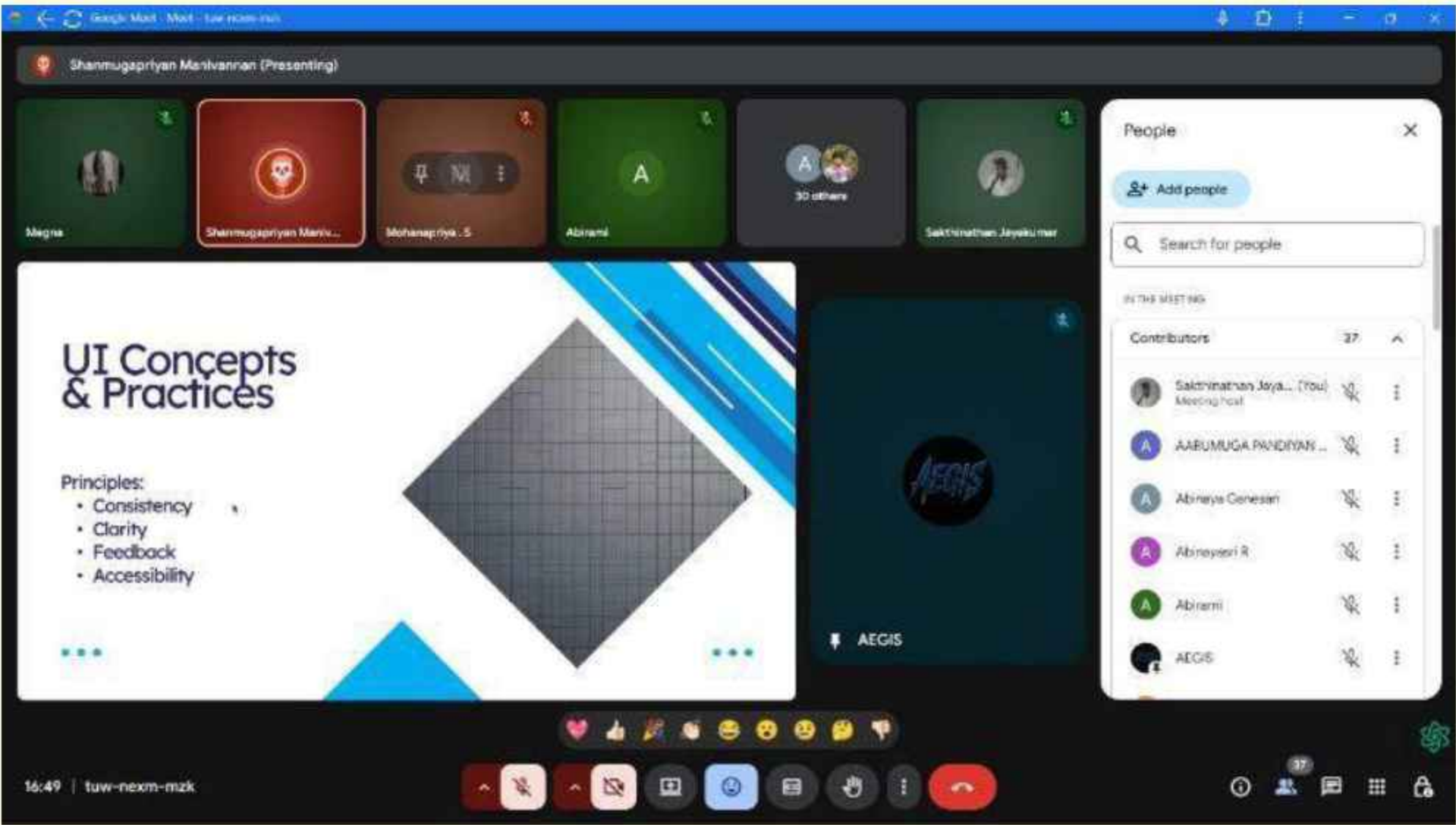


05 “The Complete UI/UX Journey: from Figma to Flutter”



The webinar on “The Complete UI/UX Journey: Figma to Flutter” held on 7th September 2025 offered students an in-depth understanding of how creative design ideas are transformed into functional mobile applications. The session focused on bridging the gap between design and development, covering essential UI/UX principles, wireframing,

prototyping techniques in Figma, followed by the seamless implementation of designs using the Flutter framework.the interactive nature of the webinar encouraged active participation, enabling students to clarify doubts and explore new tools in both UI/UX and app development.



06 “Mock Assessment Test for GATE Aspirants: Strengthening Exam Readiness”



A Mock Assessment Test for GATE Aspirants was organized to help students assess their level of preparation and gain a realistic experience of the actual GATE examination environment. The test covered comprehensive range of core subjects, analytical problem-solving techniques, and effective time management strategies this for competitive exams. Participants appreciated the well-structured format, which closely mirrored the GATE pattern and helped them manage exam pressure.

efficiently. The initiative enabled students to identify their strong and weak areas, refine their conceptual understanding, and focus on targeted improvement. Detailed feedback and performance analysis were shared with each participant, providing valuable insights into their accuracy, speed, and subject proficiency. The mock test not only helped in self-evaluation but also boosted students' confidence and motivation to perform better in the upcoming GATE examination. Comprehensive feedback and a detailed performance analysis report were provided to each participant, helping them interpret their results and strategize for better performance in future attempts. The session also included discussions on effective revision techniques. Overall, the session proved to be a productive and encouraging experience.



ALUMNI SPOTLIGHT

ABOUT ALUMNI SPOTLIGHT

The Alumni Spotlight section serves as platform to celebrate the outstanding achievements and journeys of our esteemed alumni. It highlights individuals who have excelled in their chosen fields while continuing to uphold the values and spirit of our institution. Each spotlight story reflects the dedication, perseverance, and passion that our graduates carry into the world, demonstrating how education becomes the foundation for lifelong success. Through the alumni spotlight, we aim to showcase role models who inspire current students to dream big and strive for excellence. These stories provide insight into diverse career paths — from technology and research to entrepreneurship, education, and community service. they reveal how our alumni transform their knowledge into meaningful contributions that create impact beyond the campus walls. Ultimately, the Alumni Spotlight stands as a proud reflection of our institution’s legacy — showcasing how each alumnus becomes a torchbearer of excellence, leadership, and innovation. Their accomplishments illuminate the path for others, reminding us that education is not the end of a journey, but the beginning of a lifelong pursuit of purpose and progress.

Siva Kumar R

Senior software engineer,
Cognizant technology solutions-Chennai.



Strategic thinking and technical mastery define the professional journey of

Siva Kumar R, a Senior Software Engineer at Cognizant Technology Solutions. With a versatile skill set that includes C# .NET, .NET Core, MS SQL, Angular, React, and Azure, delivers robust, scalable solutions that power enterprise innovation. His expertise spans both front-end and back-end development, enabling seamless user

experiences and efficient system architectures. At Cognizant, Siva Kumar R plays a key role in driving digital transformation, leveraging cloud technologies and modern frameworks to meet complex business needs. “I believe in continuous learning and staying updated with emerging technologies to deliver impactful solutions. Collaboration and knowledge sharing have always been my core strengths, helping teams grow together. My journey reflects a deep passion for technology and a commitment to driving innovation in every project I take on.”

“Technology is a tool—what matters is how we use it to solve real-world problems and create meaningful impact”

--Siva kumar R

Sheik Alavudeen A

Senior software engineer,
Klizer.



Shaping digital commerce with precision and passion has always been my goal.

As a Senior Software Engineer-1 at Klizer, I focus on building and optimizing online storefronts using Adobe Commerce (Magento) to deliver seamless and high-performing e-commerce experiences. My role goes beyond front-end development — I work on integrating platforms with ERP systems, content providers, and various

operational tools to ensure smooth functionality across the entire digital ecosystem. I take pride in connecting technology with business operations, helping clients scale efficiently while maintaining a unified digital presence. From improving user experiences to streamlining backend processes, I strive to bring both innovation and stability to every project I work on. Continuous learning has been a major part of my journey. I always keep myself updated with the latest technologies and industry trends to deliver modern, effective solutions. I strongly believe in teamwork, collaboration, and knowledge sharing — values that have shaped my growth at Klizer.

“I believe in bridging technology and business to create seamless digital experiences that empower growth and innovation”

--Sheik Alavudeen A

Udhaya Veena A

Assistant Professor, Department of Information Technology
Anand Institute of Higher Technology, Chennai
(A group of Kalasalingam University)



Uplifting minds through knowledge and innovation has always been my passion. I currently serve as an Assistant Professor in the Department of Information Technology at Anand Institute of Higher Technology, Chennai, part of the Kalasalingam University group, and I am deeply committed to guiding the next generation of tech leaders. I strive to create a dynamic learning environment where students can explore, experiment, and

develop both technical skills and critical thinking. Mentoring students goes beyond academics for me — I aim to empower them to be creative, confident, and ready to lead in the field of information technology. Beyond the classroom, I actively participate in workshops, faculty development programs, and conferences to enhance my knowledge and pedagogical skills. These experiences allow me to bring cutting-edge insights into my teaching, ensuring students receive a quality education that aligns with global standards.

“Teaching is not just about delivering knowledge—it’s about empowering minds to think, create, and lead.”

--Udhaya Veena A

M. Gokulvasan-Associate Editor/CSE

From 4th year “A” Section

Department of Computer Science and Engineering

EGS Pillay Engineering College-Nagapattinam.

Growing through the journey of shaping this symposium magazine has been an inspiring and memorable experience. Each step — from brainstorming concepts to perfecting the final layout has revealed the true power of teamwork, patience, and creativity. This magazine is not merely a collection of pages but a reflection of our collective effort, ideas, and enthusiasm. Every design, article, and thought carries the spirit of our department and the dedication of everyone who contributed. Working with such a talented editorial team has taught me that great outcomes are born when passion meets purpose. The collaboration, creativity, and determination displayed throughout this process made every challenge worthwhile. Perfecting the final layout has revealed the true power of teamwork, patience, and creativity. This magazine is not merely a collection of pages but a reflection of our collective effort, ideas, and enthusiasm. Every design, article, and thought carries the spirit of our department and the dedication of everyone who contributed. Working with such a talented editorial team has taught me that great outcomes are born when passion meets purpose. The collaboration, creativity, and determination displayed throughout this process made every challenge worthwhile.

*“Great things are created when minds
unite and imaginations take flight.”*

--M. Gokulvasan

R. Manikandan-Associate Editor/CSE

From 4th year “A” Section

Department of Computer Science and Engineering

EGS Pillay Engineering College-Nagapattinam.

Moments spent working on this symposium magazine have been truly rewarding and filled with creativity and collaboration. Every stage the journey from this collecting ideas to shaping them into pages has deepened my appreciation for teamwork and dedication. This magazine stands as a beautiful outcome of passion, unity, and hard work. Each page reflects the vibrant spirit of our department and the enthusiasm of every contributor who made this possible. Through this experience, I've learned that great achievements are born not just from talent, but from persistence and cooperation. The journey of transforming thoughts into print was challenging yet deeply fulfilling. My heartfelt gratitude goes to our Chief Editor, faculty members, and my fellow editorial team for their support and inspiration throughout this process. May this magazine continue to motivate others to think creatively and strive for excellence. May this publication remind every reader that dedication turns dreams into reality. Let it inspire future innovators to push boundaries and embrace challenges with confidence. Together, let's continue to create, inspire, and achieve more.

*“Moments of effort create memories
of excellence that inspire forever.”*

--R. Manikandan

A.Albasith-Associate Editor/CSE

From 4th year “A” Section

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A malgamating a whirlwind of ideas, tight deadlines, and dynamic design concepts, assembling this symposium magazine has been an amazing journey enriched with aspiration, achievement, and appreciation. As an Associate Editor from the Department of Computer Science and Engineering, I feel deeply honored and privileged to have been part of this creative and collaborative endeavor. The magazine is not just a collection of articles and visuals; it is a true reflection of the energy, enthusiasm, and innovation that define our department. This journey offered me the opportunity to work alongside a team of incredibly talented peers and encouraging mentors, each contributing their unique strengths and perspectives. Through brainstorming sessions, design reviews, and content curation, we navigated challenges and celebrated milestones that have left a lasting impact on our academic experience. Apart from enhancing my editorial and organizational skills, this experience taught me the true meaning of teamwork, responsibility, and leadership. It reminded me that when driven individuals come together with a shared vision, extraordinary things can be accomplished. This magazine stands as a testament to our dedication and creativity. I will always look back on this experience with immense pride and gratitude, as it marks a memorable milestone in my student journey.

“Aspired ideas, when aligned with action and ambition, always lead to achievements worth remembering”

--A. Albasith



*“ Thank you for reading and enjoying our magazine.
We hope it brought you joy and inspiration.
Your support makes our efforts worthwhile.
Keep exploring and celebrating ideas with us. ”*

--Dept of CSE

SYNAPSE

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