



Vision of the Department

To inspire and educate female students in Computer Science and Engineering to become skilled, ethical, and innovative professionals prepared for future technologies and challenges.

Mission of the Department

- M1: To provide strong foundational and advanced knowledge in core areas of Computer Science and Engineering, enabling students to design, analyse, and solve engineering problems using modern Computing tools.
- M2: To promote research skills, innovation, entrepreneurship and lifelong learning by encouraging students to participate in research, development, and interdisciplinary activities in emerging technologies.
- M3: To inculcate professional ethics, social responsibility, and sustainable practices, enabling graduates to contribute positively to society.

Program Educational Objectives

- PEO1: To acquire logical and analytical skills in core areas of Computer Science & Information Technology.
- PEO2: To adapt new technologies for the changing needs of IT industry through self-study, graduate work and professional development.
- PEO3: To demonstrate professional and ethical attitude, soft skills, team spirit, leadership skills and execute assignments to the perfection.

Program Specific Outcomes

- PSO1: **Software Development:** Ability to grasp the software development life cycle of software systems and possess competent skill and knowledge of software design process.
- PSO2: **Industrial Skills Ability:** Ability to interpret fundamental concepts and methodology of computer systems so that students can understand the functionality of hardware and software aspects of computer systems.
- PSO3: **Ethical and Social Responsibility:** Communicate effectively in both verbal and written form, will have knowledge of professional and ethical responsibilities and will show the understanding of impact of engineering solutions on the society and also will be aware of contemporary issues.

EDITORIAL BOARD

Dr. B Phijik, HOD (CSE)

Mrs. V. Suzan Shalini, Assistant Professor, BS&H.

Mrs. Amulya Rachna, Assistant Professor, CSE.

Ms. Jiya Batra, CSE (Student)

Ms. Ch Deepika, CSE(Student)

Ms. Nimitha Cirasaganandla, CSE(Student)

Ms. Aishwarya Bulusu, CSE(Student)

COMPUTER SCIENCE AND ENGINEERING



Established in 2008, the CSE Department at VMTW has grown from an intake of 90 to 240 students, reflecting its commitment to excellence. The department earned NBA accreditation in 2019 and reaccreditation in 2022, ensuring high academic standards.

With experienced and research-driven faculty, the department promotes innovation through Centres of Excellence in IoT and AI & ML and collaborations with MSME, ALEAP, and TASK. Active associations with ISTE, CSI, and IETE enrich student learning through workshops and seminars.

Boasting 90% placements in leading companies like Amazon, Flipkart, Accenture, and Cognizant, and a highest package of ₹ 20 LPA, the department stands as a hub of innovation, research, and success.



HOD'S MESSAGE

Dr. Phijik Battula,

Associate Professor &
HoD, DEPARTMENT OF
COMPUTER SCIENCE AND
ENGINEERING

Dr. Phijik Battula brings over 20 years of academic and research experience to his role as Associate Professor and Head of the Department of Computer Science & Engineering at Vignan's Institute of Management and Technology for Women (VMTW), Hyderabad. He earned his Ph.D. in Computer Science from Osmania University, Hyderabad in 2023. He holds an M.Tech. in Computer Science and Engineering from Jawaharlal Nehru Technological University Hyderabad (JNTUH). Dr. Battula's expertise spans Computer Networks, Software Engineering, Operating Systems, Machine Learning, and Blockchain Technologies. He has made significant scholarly contributions, including: 3 national patents, 1 authored book, 10 journal publications, including (1 in SCIE-indexed journal, 4 in SCOPUS-indexed journals, 5 in UGC- approved journals, 2 international conference papers). He also served as an Academic Counsellor with the Indira Gandhi National Open University (IGNOU), Regional Services Division, Maidan Garhi, New Delhi, through Aurora Degree College Study Center (Code: 0111), Hyderabad. A dedicated mentor and educator, Dr. Battula has guided over 100 B.Tech graduates from VIGNAN's Group Institutions, Hyderabad. He is an active member of several professional organizations, Life Member, Indian Society for Technical Education (ISTE) – LM-137313, Life Member, International Association of Engineers (IAENG) – Member No: 277087, Life Member, Society of Digital Information and Wireless Communication (SDIWC) – ID: 30616.

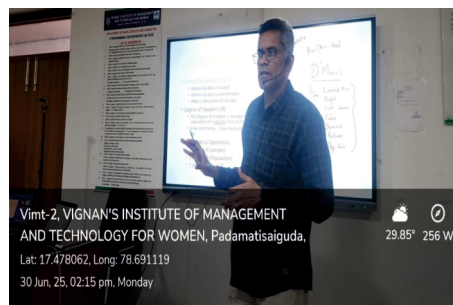
EVENTS AT DEPARTMENT

Faculty Development Programme (FDP) Report On “Harnessing Machine Learning from Fundamentals to Applications”:

The Faculty Development Programme (FDP) titled "Harnessing Machine Learning from Fundamentals to Applications" was conducted from 30th June 2025 to 5th July 2025 at Vignan's Institute of Management and Technology for Women. This FDP was organized in association with Electronics & ICT Academy, NIT Warangal (Hub) and IIITDM Kurnool (Spoke), with sponsorship from the Ministry of Electronics and Information Technology (MeitY), Government of India.

The sessions were delivered by eminent academicians, researchers, and industry experts, including:

- Hari Akkiraju – COO & CIO, DevDolphins Pvt. Ltd.
- Prof. Venkateswara Rao Kagita – Assistant Professor, CSE, NIT Warangal
- Mr. T Naveen Kumar Medeva – Vice President, Medeva Healthtech Pvt. Ltd.
- Dr. Vijay Nalamothu – Senior Consultant, Deloitte
- Dr. Korra Sathya Babu – Assistant Professor, IIITDM Kurnool
- Dr. Nagaraju K – Assistant Professor, IIITDM Kurnool
- Prof. Ramalingaswamy Ch – Assistant Professor, CSE, NIT Warangal
- Prof. Masilamani V – Professor, CSE, IIITDM Kancheepuram
- Dr. Vijender Busi Reddy – Scientist, ISRO
- Prof. Balaprakasa Rao Killi – Assistant Professor, CSE, NIT Warangal
- Mr. Gopinadh K – Lead Software Engineer & Vice President, Wells Fargo



The objective of the FDP was to provide faculty members with a comprehensive understanding of Machine Learning concepts, from theoretical foundations to practical, hands-on applications, enabling them to integrate these skills into their teaching and research activities.

TED^x VMTW

TEDX: IDEAS WORTH SPREADING**

VMTW proudly hosted its first independently licensed **TEDx** event, bringing the global spirit of TED to our campus. With the theme ***“Owning Your Story: From Self-Doubt to Self-Belief,”** the event celebrated courage, authenticity, and the power of personal growth.

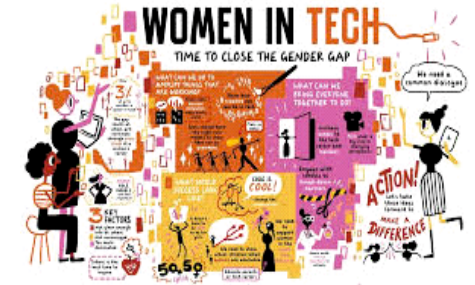


TEDx VMTW not only showcased stories that inspired change but also highlighted the strength of community, creativity, and collaboration within our college — proving that when we own our stories, we empower others to do the same.

FACULTY ARTICLE ON EMPOWERING INNOVATION THROUGH DIVERSITY

By, Mrs Amulya Rachna, Assistant Professor (CSE)

Women in Tech – Empowering Innovation Through Diversity



The technology industry, once considered a male-dominated field, is witnessing a powerful transformation with the increasing participation of women in technology. Women are breaking barriers, leading innovations, and redefining the future of computing, data science, artificial intelligence, and entrepreneurship.



Diversity in technology fosters creativity, inclusivity, and balanced problem-solving, as different perspectives bring fresh ideas and holistic solutions. Today, women technologists are not just coding and designing systems but also taking leadership roles in global tech organizations, startups, and research communities.

However, there is still a need to encourage young women to pursue careers in STEM by creating supportive academic environments, mentorship opportunities, and equal representation in workplaces. As educators, we play a vital role in motivating our students to believe in their abilities and embrace technology as a tool for empowerment.



Empowering women in tech is not just about equality—it is about building a stronger, smarter, and more innovative world.

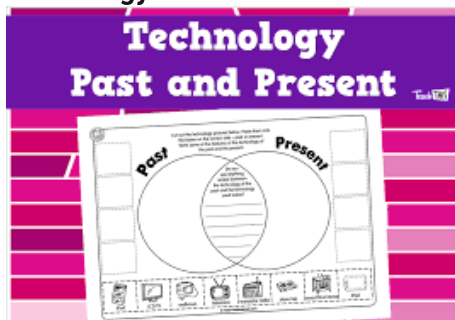
FACULTY PUBLICATIONS

SI No	Author	Title	ISSN No	Journal name
1	Mrs Bhanusri	An efficient mechanism of lightweight mobilenet models for iot based edge computing using machine learning	2456-5083	IJIEMR
2	Mrs Bhanusri	Patterned based skin disease detection with optimized machine learning models	3068-272X	IJDIM

STUDENT ARTICLE ON TECHNOLOGY: PAST & PRESENT

By, Ch. Deepika III year (CSE)

Technology: Past & Present



Technology has always been the driving force behind human progress. From the invention of the wheel, printing press, and telegraph to the rise of computers, smartphones, and artificial intelligence, it has continuously reshaped the way we live, work, and connect with one another.



In the past, technology focused on simplifying manual tasks and improving communication. The arrival of the industrial revolution and later, the computer age, marked major turning points in human civilization. Today, in the digital era, technology has evolved beyond imagination—enabling virtual reality, cloud computing, robotics, and machine learning, which power almost every aspect of our lives.



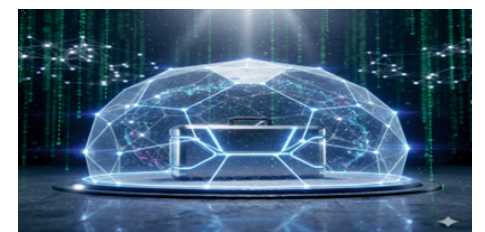
While the past laid the foundation for innovation, the present is about integration and intelligence—where devices learn, adapt, and interact seamlessly. As we move forward, technology continues to bridge the gap between imagination and reality, shaping a smarter and more connected world.

STUDENT PROJECTS

Authenticity classification for job posting using ML&NLP technique

G. Harsha Sri (22UP1A0563)

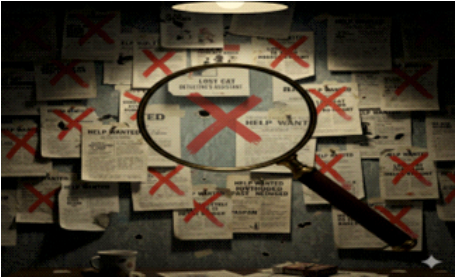
The rapid expansion of online recruitment platforms has significantly streamlined the job search process, yet it has also opened the door to fraudulent activities. Deceptive job postings, often referred to as "job scams," aim to harvest sensitive personal data or defraud job seekers financially. This project focuses on developing an automated authenticity classification system using Machine Learning (ML) and Natural Language Processing (NLP). By analyzing the linguistic patterns, structural metadata, and contextual information within job advertisements, the system can distinguish between legitimate opportunities and malicious listings, thereby enhancing the security and trustworthiness of digital employment ecosystems for millions of users worldwide.



Existing Systems

Currently, most job portals rely on manual reporting mechanisms or basic keyword-based filtering to identify fraudulent content. Some platforms employ rule-based systems that flag postings from unverified domains or those containing suspicious phrases like "work from home" combined with unusually high salaries. However, these traditional methods often struggle to keep pace with the evolving tactics of scammers, who frequently use sophisticated language to mimic

legitimate corporate communications. Furthermore, human moderation is slow, costly, and unable to process the massive volume of daily uploads, leading to a significant delay in removing harmful content from the live web.



Proposed System

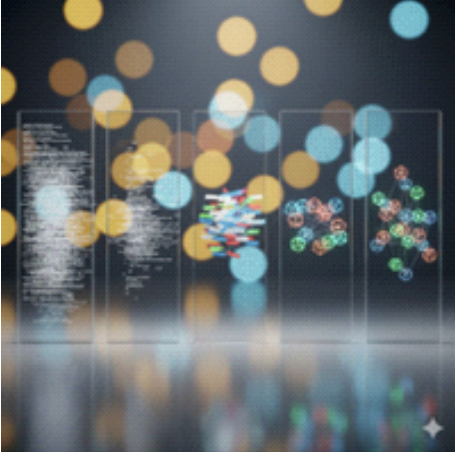
The proposed system introduces an intelligent, real-time classification framework that integrates advanced NLP models with robust ML classifiers. Unlike static filters, this system performs deep semantic analysis to detect subtle inconsistencies in job descriptions that human eyes might miss. It evaluates features such as language complexity, emotional tone, and recruiter metadata to assign a probability score to each post. By utilizing a hybrid approach—combining supervised learning on historical datasets with anomaly detection—the system can identify both known scam patterns and emerging threats. This ensures that fraudulent listings are flagged or removed automatically before they reach the applicant.



Methodologies Used

The methodology involves several key stages, starting with data preprocessing, where NLP techniques like tokenization, lemmatization, and TF-IDF vectorization are applied to clean the text. Feature engineering is then used to extract N-grams and sentiment scores. For the classification engine, algorithms such as Random Forest, Support Vector Machines (SVM), and Gradient Boosting are trained on labeled datasets containing both real and fake job posts. Additionally, Deep Learning architectures like Long Short-Term Memory (LSTM) networks or BERT embeddings are utilized to capture

long-range dependencies in the text, ensuring high accuracy and reducing the rate of false positives in the final output.



E-commerce with tele-blockchain for product authenticity

Ch. Kavitha (22UP1A0537)

The integration of E-commerce with "Tele-Blockchain"—a hybrid infrastructure combining telecommunications networks and blockchain technology—aims to solve the global crisis of counterfeit goods. In a standard digital marketplace, consumers lack a physical way to verify if a product is genuine before or after purchase. By utilizing a decentralized ledger, every product is assigned a unique, tamper-proof digital twin at the point of manufacture. This system ensures that every luxury item, pharmaceutical, or electronic device has a traceable "birth certificate" on the blockchain, providing a transparent and immutable history that empowers consumers to verify authenticity with a simple smartphone interaction.



Existing Systems

Current e-commerce platforms primarily rely on centralized databases and physical security features like holographic stickers or unique serial numbers. However, these methods are increasingly vulnerable to sophisticated forgery; counterfeiters can easily replicate physical tags or hack into centralized corporate servers to alter records. Furthermore, once a product leaves the manufacturer, there is often a "visibility gap" in the supply chain where authentic goods can be swapped for fakes. Consumers currently have no real-time, independent method to validate the entire journey of a product, leading to a significant erosion of brand trust and financial losses.



CAMPUS RECRUITMENT				
Sl No	Company Name	Package	Designation	No. of CSE Students placed
1	Anasol	3.5 LPA	Associate software engineer	2
2	Zithara	4.5 LPA	Software developer	3
3	Keshav soft	3 LPA	Full stack developer	2
4	Bright Champs	6 LPA	Content Writer	3

Placed Students Poster

SUCCESS STORIES...
Batch: 2024-25

Congratulations!

12 STUDENTS HAS BEEN SELECTED FOR

WITH PACKAGE:
4.5 LAKHS PER ANNUM

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EMPOWERING WOMEN

ZITHARA.AI
Accelerated Growth

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SUCCESS STORIES...
Batch: 2024-25

Congratulations!

5 STUDENTS HAS BEEN SELECTED FOR

WITH PACKAGE:
3.5 LAKHS PER ANNUM

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INSTITUTE OF MANAGEMENT AND TECHNOLOGY FOR WOMEN
EMPOWERING WOMEN

ANASOL
CONSULTANCY SERVICES
SINCE 2018

SUCCESS STORIES...
Batch: 2024-25

Congratulations!

3 STUDENTS HAS BEEN SELECTED FOR

WITH PACKAGE:
6 LAKHS PER ANNUM

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EMPOWERING WOMEN

BrightCHAMPS

Bollam Sai Lavanya
21UP1A0512 - CSE

Tejanvitha
21UP1A0597 - CSE

Ramaka Rukmini
21UP1A0582 - CSE

Program Outcomes (Adapted from NBA)

Engineering Graduates will be able to:

Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems

Problem Analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and Engineering sciences.

Design/Development of Solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health safety, and the cultural, societal, and environmental considerations.

Conduct Investigations of Complex Problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions

Modern Tool Usage: Create, select and apply appropriate techniques, resources and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

The Engineer and Society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

Environment and Sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts and demonstrate the knowledge of, and need for sustainable development.

Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations and give and receive clear instructions.

Project Management and Finance: Demonstrate knowledge and understanding of the engineering management principles and apply these to one's own work, as a member and leader in a team to manage projects and in multidisciplinary environments.

Life-Long Learning: Recognize the need for and have the preparation and ability to engage in independent and lifelong learning in the broadest context of technological change.