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Jawaharlal Nehru New College of Engineering

SHIVAMOGGA - 577204

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& affiliated to VTU



AIML MATTERS

 Consensus  GitHub Copilot  Adobe Firefly

HIGHLIGHTS:

Faculty Forte

Innovation Arena

Achiever Spotlight

Placement Edge

Students Achievement

AI Frontiers

AI Trends

Art Showcase

Story Corner



***Department of Artificial Intelligence
& Machine Learning***

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 hod_aiml@jnnce.ac.in

FACULTY ACHIEVEMENTS

Ms. Shaziya Banu S received Research Incentives for Paper Publication at JNNCE on 01-01-2026. She also completed a certification course on Power BI for Beginners from Simplilearn during 07-01-2026 to 08-01-2026. Further, she actively participated in multiple FDPs including Enhancing Teaching Learning and Research Skills at JNNCE on 24-01-2026 and an AICTE-sponsored FDP on Emerging Trends in Artificial Intelligence and Its Real-World Applications conducted online from 19-01-2026 to 24-01-2026.

Mr. Nishanth S attended an FDP on Enhancing Teaching Learning and Research Skills at JNNCE on 24-01-2026 and contributed significantly to student research publications, including SkinSense AI: AI Based Skin Disease Diagnosis published on 20-01-2026 and Quantitative Spiral Pattern Analysis for Parkinson's Disease Diagnosis Using ML Techniques published in IJIRT on 15-01-2026.

Mr. Ranjan V participated in an AICTE-sponsored FDP on The Next Decade of Innovation in India: Powered by Generative AI and Data Science conducted online from 19-01-2026 to 24-02-2026. He also guided the publication titled An Intelligent Video-Based Question Answering Framework Using Deep Multimodal Learning, published in IJIRT on 01-01-2026.

Dr. Ashwini J P contributed to the publication Automated Linguistic Analysis and Summarization of Sanskrit Prose Using NLP Technique, which was published in IJIRT on 07-01-2026.

Ms. Aaliya Waseem published a paper titled Silent Speech Recognition in a National Journal on 05-01-2026.

Innovation spotlight


Intellectual
Property
Office

Certificate of Registration for a UK Design

Design number: 6497347

Grant date: 21 January 2026

Registration date: 06 January 2026

This is to certify that,

in pursuance of and subject to the provision of Registered Designs Act 1949, the design of which a representation or specimen is attached, had been registered as of the date of registration shown above in the name of

Shaziya Banu Sharfudden, Dr. Pallavi Gundlupet Balakrishna, Dr. Ashwini

Janagal Padmanabha, Khushan Gowda Gowda Halesh, Vinay Raj Venkatesha,

Mohammed Ibrahim, Jeevan Hatturmatha Girish

in respect of the application of such design to:

AI based Water quality checking device

International Design Classification:

Version: 15-2025

Class: 10 CLOCKS AND WATCHES AND OTHER MEASURING

INSTRUMENTS, CHECKING AND SIGNALLING INSTRUMENTS

Subclass: 05 INSTRUMENTS, APPARATUS AND DEVICES FOR CHECKING,
SECURITY OR TESTING



Adam Williams

Comptroller-General of Patents, Designs and Trade Marks

Intellectual Property Office

The attention of the Proprietor(s) is drawn to the important notes overleaf.

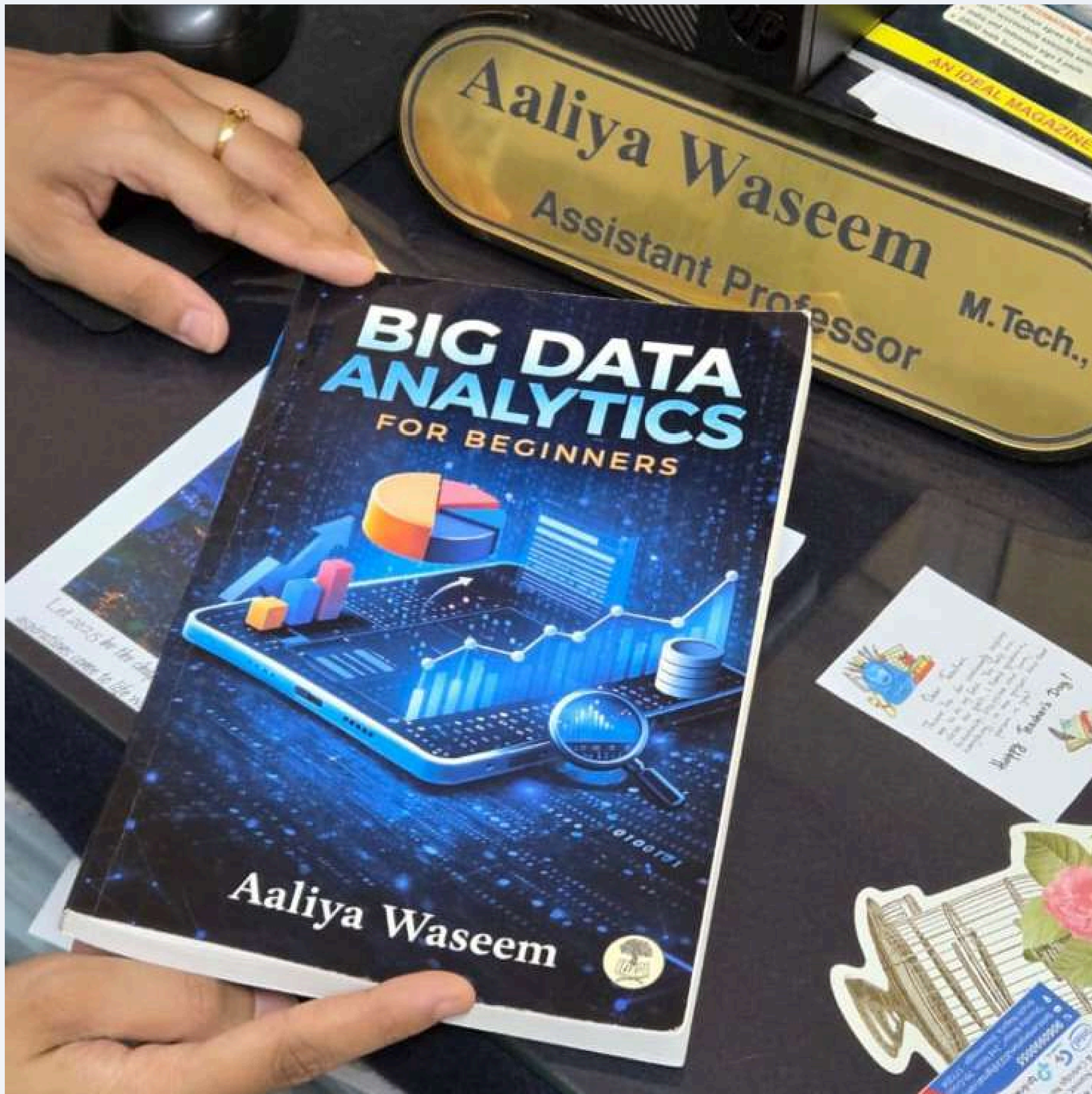


Intellectual Property Office is an operating name of the Patent Office

www.gov.uk/ipo

A UK Design Registration has been awarded by the Intellectual Property Office, United Kingdom, for the innovative project titled “AI-Based Water Quality Checking Device” (Design No. 6497347). Registered on 06 January 2026 and granted on 21 January 2026, the design demonstrates the effective application of artificial intelligence in monitoring and assessing water quality. The work has been carried out by **Shaziya Banu Sharfudden**, Dr. Pallavi Gundlupet Balakrishna, **Dr. Ashwini Janagal Padmanabha**, Khushan Gowda Gowda Halesh, Vinay Raj Venkatesha, Mohammed Ibrahim, and Jeevan Hatturmatha Girish. This recognition highlights the importance of innovative technological solutions in addressing real-world environmental challenges and ensuring access to safe water.

Faculty Achievement Spotlight



we are proud to share a remarkable academic contribution by **Ms. Aaliya Waseem**, Assistant Professor, who has authored a book titled “Big Data Analytics for Beginners.”

This book is thoughtfully designed to introduce readers to the fundamentals of big data, making complex concepts simple and accessible for students and beginners. It covers essential topics such as data analysis, visualization, and modern analytical tools, helping learners build a strong foundation in the rapidly growing field of data science.

Ms. Aaliya Waseem’s effort reflects her dedication to academic excellence and her commitment to empowering students with industry-relevant knowledge. Her work serves as an inspiration for aspiring engineers and researchers to explore emerging technologies and enhance their skill sets. We congratulate her on this achievement and wish her continued success in her future endeavors.

Placement Training Highlights



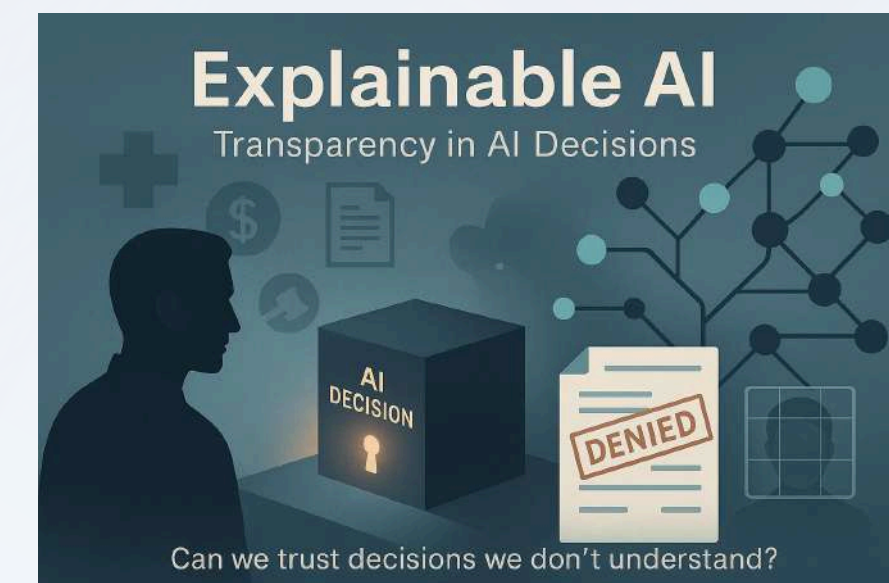
Mandara (4JN23AI064), a 6th semester student, got the momentum as an active participant during the placement training program conducted by **Naandi Foundation** from 19th to 24th January at **JNNCE**. The program focused on enhancing employability skills such as aptitude, communication, and interview techniques. With consistent enthusiasm and involvement, Mandara effectively utilized the training sessions, reflecting a strong commitment to personal growth and career readiness.

AI Frontiers

“Shaping the Intelligent Future”

Explainable AI – Making Machines Speak Our Language

Have you ever wondered how AI makes decisions? That’s where Explainable AI (XAI) comes in. Instead of acting like a mysterious “black box,” Explainable AI ensures that machines can justify their outputs in a way humans understand. Whether it’s diagnosing diseases or approving loans, XAI builds trust, transparency, and accountability turning AI into a reliable partner rather than an unpredictable tool.



RAG – AI That Knows Where to Look

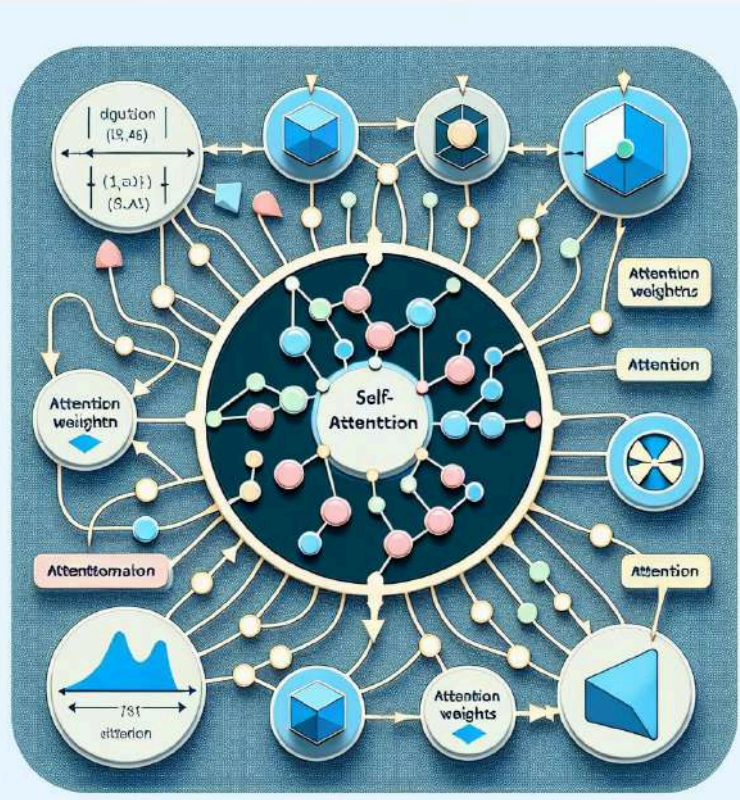
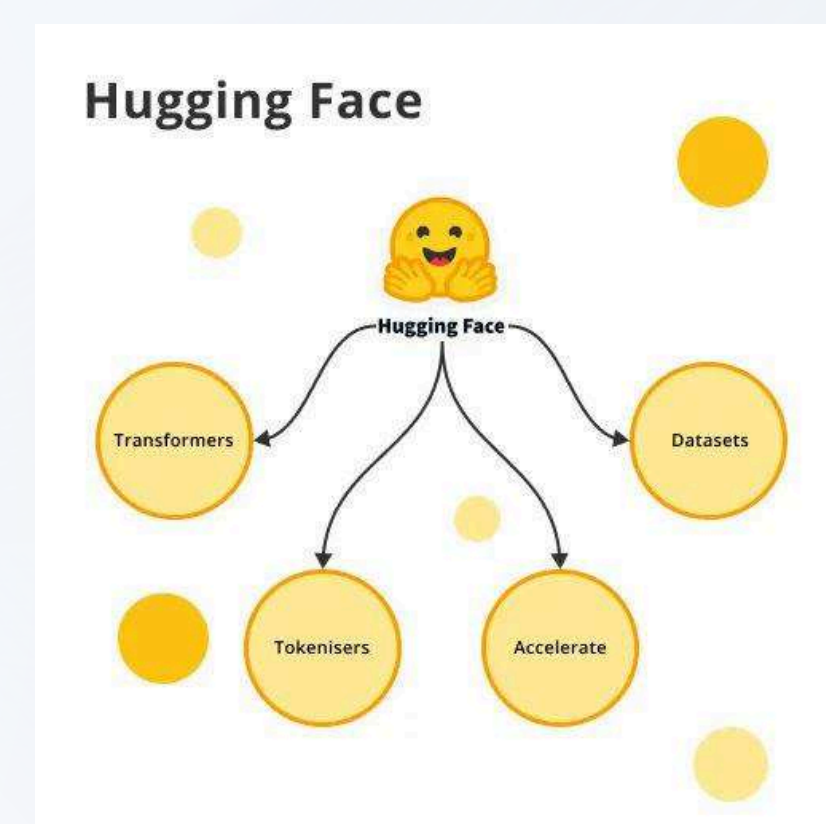
Imagine an AI that doesn’t just guess answers but actually searches and thinks before responding. That’s Retrieval Augmented Generation (RAG). RAG combines the power of real-time information retrieval with smart text generation, making responses more accurate and up-to-date. It’s the secret behind intelligent chatbots and modern AI assistants that deliver fact-based, context aware answers.

Hugging Face – AI for Everyone

The rise of Hugging Face has democratized artificial intelligence. With thousands of pre-trained models available at your fingertips, Hugging Face empowers students to build applications in:

- Natural Language Processing
- Computer Vision
- Speech Recognition

It transforms complex AI into something accessible, practical, and exciting to experiment with.



Transformers – The Brains Behind Modern AI

At the heart of today’s smartest systems are Transformer models the technology powering tools like ChatGPT. Unlike older models, transformers use attention mechanisms to understand context, making them incredibly powerful for:

- Chatbots and virtual assistants
- Language translation
- Content creation

Modern transformers are now multimodal, meaning they can understand text, images, and even audio—bringing AI closer to human like intelligence.

☀ The Future is Intelligent

From transparent decision making to real time knowledge retrieval, AI is becoming smarter, faster, and more human centric. For students and engineers, this is more than a trend ,it’s an opportunity.

**The question is no longer “What is AI?”
It’s “What will you build with it?”**

AI Current Affairs & Trends

Artificial Intelligence is no longer just a concept of the future—it is actively transforming the world around us. From smartphones to industries, AI is becoming a part of everyday life, changing how we work, learn, and interact.

What's Trending in AI?

One of the biggest trends today is Generative AI, where tools like ChatGPT and DALL·E can create text, images, code, and even videos. This has made AI not just intelligent, but also creative.

Another major advancement is Multimodal AI, which can understand and process text, images, audio, and video all at once. This means AI can now “see,” “hear,” and “understand” like humans, making it more powerful than ever.

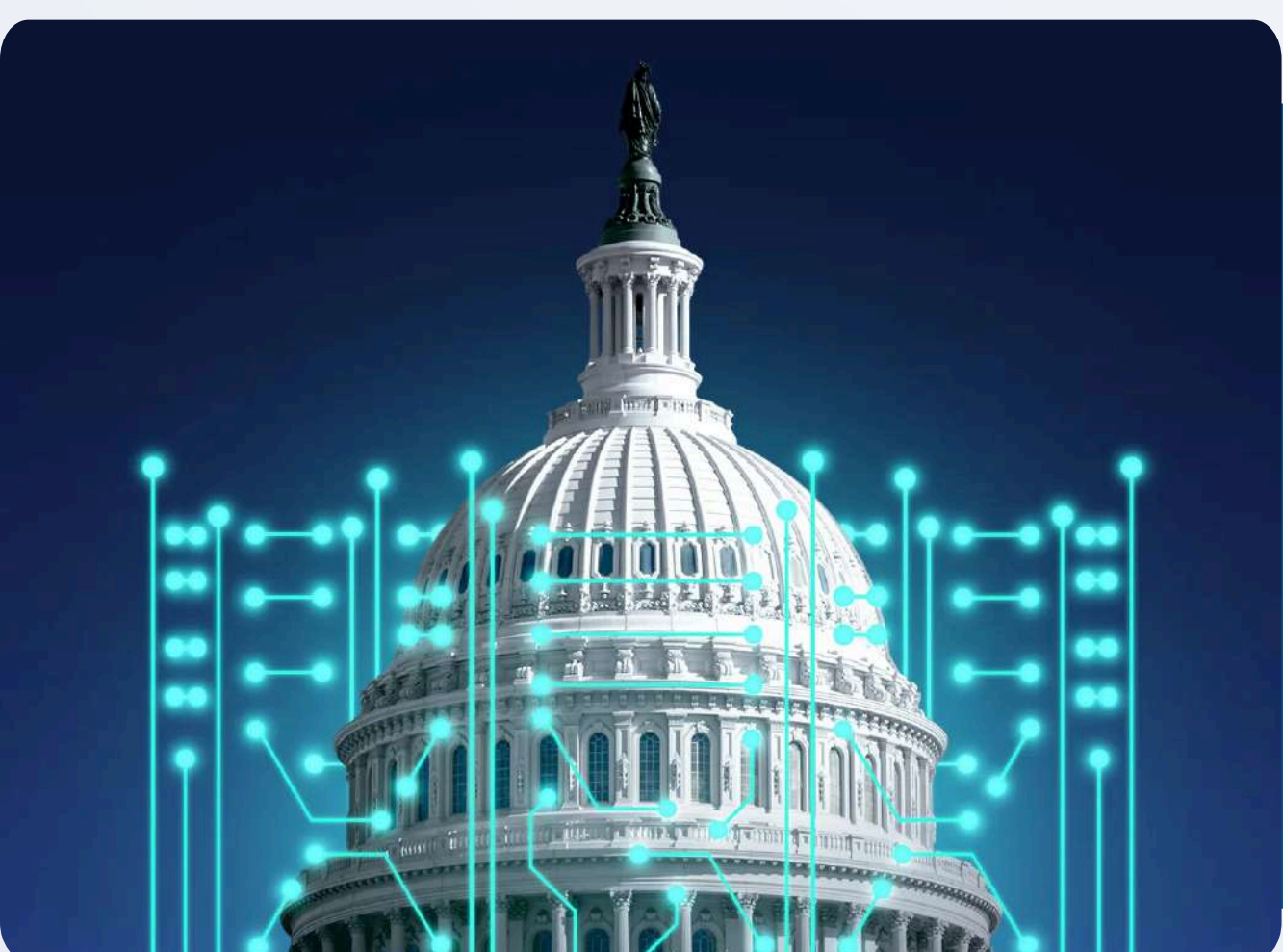
We are also seeing the rise of AI Agents—systems that can perform tasks independently, such as scheduling, coding, and managing workflows. These are like digital assistants that can work alongside humans.

AI Current Affairs:



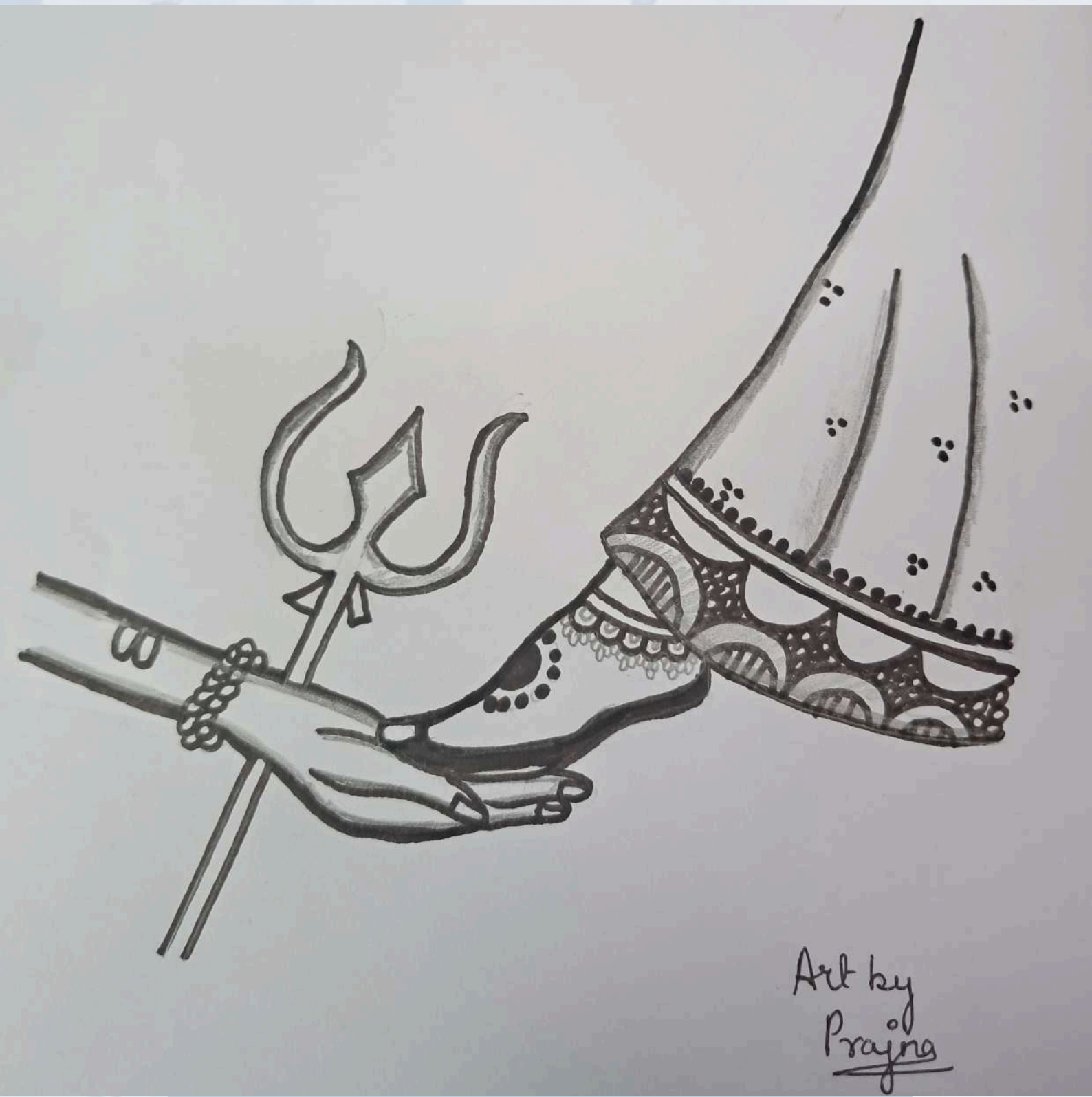
Artificial Intelligence is reshaping the workforce, as Meta and Microsoft cut thousands of jobs while investing in AI. Leaders like **Mark Zuckerberg** and **Mustafa Suleyman** say AI is reducing hiring needs and may soon replace many white-collar roles. With over 92,000 tech layoffs in early 2026, AI is boosting efficiency but also forcing workers to adapt and upskill.

The technology sector is undergoing a major transformation driven by AI, leading to structural changes in hiring, employee training, and business decision-making, according to **Srikanth Velamakanni**, CEO of **Fractal**. Recently appointed as chairperson of NASSCOM, he highlighted that AI is creating uncertainty and slowing decision cycles while reshaping workforce needs. This shift indicates that companies will increasingly focus on AI skills and adaptability, marking a new phase in the evolution of the tech industry.



OpenAI has briefed U.S. agencies and **Five Eyes** allies on a new AI cybersecurity tool, showing how AI is strengthening defense systems. However, experts warn it could also make cyberattacks more advanced, highlighting both the benefits and risks of AI.

Students art work



Prajna N Kulal
6th Semester



M Rohan
6th Semester



Mandara H
6th Semester



Dhanyashree urs
6th Semester

Tech Fun Zone

Tech Bytes: Laugh & Learn

"Because Engineering Needs a Sense of Humor Too!"

Meme
no.1

Expectation vs Reality: AIML Student Life

Expectation:

"I will build intelligent systems that change the world."

Reality:

"Why is my code not working... it was working yesterday"



Meme
no.2

Machine Learning Reality

90% Data Cleaning

9% Waiting for Model to Train

1% Actually Feeling Smart

Meme
no.3

When Your Model Finally Works

"After 100 errors, 50 tutorials, and 10 breakdowns...

Accuracy: 99% 🎉"

logic
puzzle



Find the missing number:

$2 \rightarrow 6 \rightarrow 12 \rightarrow 20 \rightarrow ?$

Hint: ("Look at the pattern carefully")



Mini Fun
Challenge

Unscramble the word:

"SISYLANAATAD"

Hint: (*Understanding data before building models*)

Engineer Truth of the Day: 😊
"Nothing is impossible... until you try doing it the night before submission."

Story time

“TRAINED TO THINK”

by Anonymous

It learns from data, but grows with values

In a quiet corner of the AI lab, long after lectures had ended and the corridors had emptied, Aarav sat staring at his screen, with lines of code reflecting in his tired eyes as his model failed once again. A third-year AIML student, he was neither a topper nor a backbencher, just consistent. While others rushed toward shortcuts such as ready-made code, copied notebooks, and borrowed projects, Aarav chose a different path; he believed in understanding. One evening, his friend Rohan asked, “Why struggle so much? Just take code from GitHub, modify it, and you’re done.” Aarav simply smiled and said nothing. The semester project was announced: build an AI system that solves a real-world problem, and the lab buzzed with ideas, some ambitious, some copied, and some too perfect to be true.

Aarav chose something simple: a crop disease prediction model for farmers, with no flashy visuals or borrowed code just genuine effort. Days turned into nights filled with errors, failures, and repeated attempts, while other teams seemed ready within days, showcasing perfect results, smooth demonstrations, and polished presentations. When presentation day arrived, teams confidently displayed high accuracy and impressive visuals. Then it was Aarav’s turn. With simple slides and a steady voice, he said, “My model isn’t perfect. The accuracy is 78%. But every line of code here I wrote it, and every mistake taught me something.” The room fell silent as the judges leaned forward, not for perfection but for honesty, and Aarav answered their questions truthfully, whether right or wrong.

Later that evening, the results were announced, and although he did not win first place, something unexpected happened. One of the judges approached him and said, “We don’t need perfect models; we need people who can build, fail, learn, and improve. That is real AI.” A few weeks later, Aarav received an internship offer not because his model was the best, but because his mindset was.

Message: In AI and ML, machines learn from data, but engineers learn from mistakes. Accuracy can be improved, but integrity cannot be replaced. Build models but more importantly, build yourself.

“AIMUSE: Where AI Meets Immersive Reality”

by Dr. Chetan KR,



AIMUSE is a concept/approach where AI + AR/VR + human senses are combined to create adaptive, immersive experiences.

Think of it as: the system watches how the user behaves and then adjusts the virtual world in real time.

Core ideas

- 👁 Perception-aware: tracks gaze, head, hand gestures
- 🧠 Cognitive-aware: estimates attention, fatigue, learning level
- 🎧 Multisensory: visuals + audio + (optionally) haptics
- 🔄 Adaptive loop: AI continuously updates difficulty/content

🔬 Predictive Simulation (Bio/Medical, Engineering)



Predictive simulation powered by AI is transforming AR/VR from a visualization tool into a decision-making engine. Instead of merely showing static models, these systems simulate real-world behavior in real time—from blood flow through arteries to stress distribution in mechanical structures. In medical training, a student can interact with a virtual organ and instantly observe how a disease progresses or how a treatment alters outcomes. In engineering, designers can test materials, loads, and failure conditions inside immersive environments before building physical prototypes. By combining data-driven AI models with immersive AR/VR, predictive simulation enables users not just to see, but to anticipate, analyze, and optimize outcomes, reducing risk, cost, and time while dramatically enhancing understanding and innovation.

Department of Artificial Intelligence & Machine Learning

✉ hod_aiml@jnnce.ac.in



“ LEARN . PREDICT . INNOVATE ”



Edited by Dhanyashree URS