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AIML **MATTERS** *Newsletter*

Aug- Sept 2025

**Department Of Artificial Intelligence
& Machine learning**

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AIML FLASH NEWS

- Preface -



The unveiling of GPT-5 by OpenAI on August 7, 2025, set a new benchmark for generative AI. GPT-5 introduces a step-change in technical capabilities, especially in reasoning and multi-modal understanding. Its ability to integrate text, image, and voice processing in a unified model marks a significant evolution from previous generations. Benchmarks suggest a 40% improvement over GPT-4 in handling complex reasoning tasks, from scientific problem-solving to autonomous coding and data analysis



August 2025 witnessed a pivotal milestone in scientific automation when researchers at Stanford University, alongside the Chan Zuckerberg Biohub, successfully demonstrated autonomous multi-agent AI labs. Here, expert AI agents—including Principal Investigator bots, specialized researchers, and critics—collaborated independently to conceive and validate new COVID-19 nanobodies with minimal human input



xAI accuses OpenAI in a federal complaint filed in California of engaging in an "unfair and unlawful campaign" to misappropriate trade secrets. These include its source code, training methods, and advanced data center deployment strategies. The lawsuit claims OpenAI sought unfair advantage in the AI race by targeting employees with inside knowledge.

"Machine intelligence is the last invention that humanity will ever need to make"

-Nick Bostrom



FACULTY AND DEPT.'S ACHIEVEMENT



The Department of AIML, JNNCE, has signed an MoU with Vitality Digital Pvt. Ltd., a growing tech company specializing in intelligent systems and smart web solutions. This collaboration strengthens

industry-academia partnership in developing AI-driven applications for Government Schemes and Digital Governance. As part of the initiative, ten AIML students have been selected for a year-long paid internship, gaining hands-on experience in AI app development, data analytics, and citizen-centric digital solutions. The partnership further paves the way for consultancy projects, joint research, and product development, aligning with the department's mission to transform learning into real-world innovation.



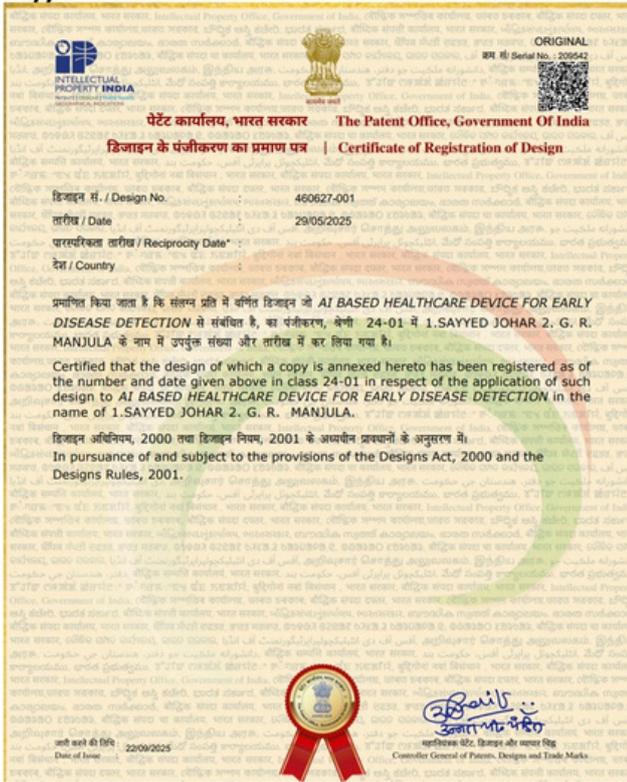
The Department of Artificial Intelligence & Machine Learning (AIML), JNNCE, celebrates a major achievement as seven student innovation projects have been selected for national-level funding, each receiving ₹2.5 lakh under reputed innovation and incubation programs. These projects showcase technological innovation and social

impact, addressing challenges in healthcare, sustainability, security, and immersive intelligence. All teams have developed working prototypes, with the next phase focusing on real-world validation and deployment. Notably, three teams are forming LLPs, while four have initiated patent filings, marking their journey from prototypes to startups. This accomplishment reflects the AIML Department's strong innovation culture, blending mentorship, research, and entrepreneurship to shape future-ready AI innovators and change-makers.

FACULTY AND DEPT.'S ACHIEVEMENT

Patent Grants

Sayeded Johar – Patent Granted



Dr. Chetan K R- Patent Granted along with 4 students of first batch of AIML



Mr. Ranjan V, faculty member of the Department of AIML, JNNCE, delivered an expert talk on "Relational Database Management System" at Government First Grade College, Ayanur, Shivamogga, on 4th September 2025. Organized under the IQAC-sponsored seminar, the session offered valuable insights into database concepts, normalization, and real-world applications, fostering an interactive learning environment that encouraged students to explore data-driven problem-solving and advanced computing.

FACULTY AND DEPT.'S ACHIEVEMENT

Journal Publications

Mr. Sayyed Johar, faculty member of the Department of AIML, JNNCE, made significant research contributions in 2025 with two Scopus-indexed international journal publications. His first paper, "Deep Learning Powered Virtual Fashion Try-On for Enhanced User Experience," co-authored with **Syeda Hurrain Fathima** and **Ayesah Siddiqa**, presents a deep-learning framework that enables realistic virtual apparel visualization using CNNs and pose-estimation algorithms, enhancing online fashion engagement. His second paper, "Cloud Platforms for AI: A Survey on Infrastructure, Optimization, and Governance," co-authored with Nishanth S and Ranjan V, offers a comparative study of leading AI cloud ecosystems like AWS, Azure, and Google Cloud, focusing on scalability, optimization, and ethical governance. Together, these works highlight his growing expertise in applied deep learning and intelligent cloud infrastructure.

Mr. Nishanth S, faculty member of the Department of AIML, JNNCE, co-authored the Scopus-indexed paper "Cloud Platforms for AI: A Survey on Infrastructure, Optimization, and Governance" with **Ranjan V** and **Sayyed Johar**, published in the Journal of Computer Science on 5th September 2025. The paper provides an in-depth review of global AI-focused cloud platforms, emphasizing performance optimization, cost efficiency, and compliance frameworks. His contribution reflects a strong grasp of distributed AI environments and the growing importance of transparent and sustainable governance in cloud-based machine learning systems.

STUDENTS' ACHIEVEMENTS & PARTICIPATION

First Batch AIML Students Publish Scopus-Indexed Paper

Students of the first batch of the Department of Artificial Intelligence & Machine Learning (AIML), JNNCE – **Ms. Syeda Hurrain Fathima** and **Ms. Ayesha Siddiq** – have brought laurels to the department with their Scopus-indexed international journal publication titled “Deep Learning Powered Virtual Fashion Try-On for Enhanced User Experience” in the Journal of Technology (Vol. 13, Issue 9, pp. 976–989, September 2025). Guided by **Mr. Sayyed Johar**, the paper introduces a deep learning-based virtual fashion try-on system using CNNs and pose-estimation techniques to deliver realistic apparel fitting and enhanced online shopping experiences. This achievement showcases the students’ technical expertise, innovation, and research excellence, reflecting the department’s commitment to fostering hands-on, innovation-driven learning. It stands as a proud milestone for the AIML Department, demonstrating its strong research culture, faculty mentorship, and student empowerment in transforming classroom learning into impactful real-world applications.

The students of the Department of Artificial Intelligence and Machine Learning (AIML) have continued to excel beyond the classroom, actively engaging in hackathons, internships, and national-level innovation programs. Their participation and recognition in reputed platforms reflect the department’s emphasis on hands-on learning, technical exposure, and real-world problem solving.

JAGADEESH R S (4JN23AI023)

Jagadeesh R S showcased his innovative mindset by participating in the Hack Yugma 1.0 hackathon conducted within the campus on 21 August 2025. His involvement demonstrated the enthusiasm and teamwork encouraged among

STUDENTS' ACHIEVEMENTS & PARTICIPATION

AIML students, as they continuously explore opportunities to apply classroom learning to competitive coding and idea-development challenges.

DEVIKA N D (4JN23AI016)

A standout performer from the second year, Devika N D has made remarkable contributions through multiple prestigious platforms.

She successfully completed two one-month national-level internships – one with Shell India, gaining exposure to data-driven industrial applications, and another with Vault of Codes, focusing on AI-based product development and professional project delivery.

Devika also represented the department in two major external hackathons: Agentic AI Day and the ISRO – Bharatiya Antariksh Hackathon held on 8 September 2025, where she actively contributed to AI-centric problem-solving aligned with national innovation missions.

Her dedication exemplifies the department's culture of fostering industry readiness, innovation, and global exposure among students.

SHREYA R CHITTARAGI (4JN23AI049)

Shreya R Chittaragi successfully completed a one-month internship with Vault of Codes in AI & Prompt Engineering, gaining hands-on experience in emerging fields such as generative AI and automation tools. Her proactive participation highlights how AIML students are being equipped to take leadership roles in futuristic technologies and interdisciplinary projects.

The accomplishments of Jagadeesh, Devika, and Shreya highlight the innovation-driven learning culture of the AIML Department at JNNCE, strengthened by expert mentorship, industry collaboration, and a project-based curriculum. Their success reflects the department's commitment to nurturing technically skilled and socially responsible AI innovators.

BLOGS AND ARTICLES

Beyond the Hype: The Tech Shifts Quietly Reshaping Our World in 2025

In a world overflowing with buzzwords and constant “next big things,” a few technologies are quietly bringing real, lasting change in 2025. These aren’t just concepts anymore – they’re moving from labs into real-world application, especially across fast-growing regions like India and Asia, where innovation meets scale and opportunity.



Artificial Intelligence has matured beyond chatbots into the age of Agentic AI. This new generation of AI can plan, execute, and manage entire workflows independently, shifting from being a helper to becoming a capable co-worker.

Simultaneously, the digital world is preparing for the quantum future through quantum-safe cryptography. Quantum computers will eventually overpower today’s encryption, so the time to fortify digital systems is now. For India’s massive digital ecosystem – from Aadhaar to UPI – and for Asia’s thriving fintech sector, adopting quantum-safe standards is vital to protect financial data, digital identities, and national infrastructure from future cyber threats. Meanwhile, Spatial Computing is redefining how we interact with technology. Instead of being limited to screens, it overlays digital information seamlessly onto the physical world. From technicians viewing repair guides directly on machines to students practicing virtual surgeries, this shift is opening powerful possibilities in education, healthcare, and remote training. For Asia’s vast and varied workforce, it promises to bridge skill gaps and expand access to advanced learning experiences. Complementing this is a hardware renaissance – powered by smarter chips and edge computing. By processing data closer to the source, whether in phones, sensors, or local devices, edge technology ensures faster responses, greater privacy, and reliable performance even in areas with patchy connectivity. This is especially impactful in regions where digital inclusion depends on resilient, low-latency systems – from smart farming to local manufacturing. Together, these shifts – Agentic AI, quantum-safe security, Spatial Computing, and edge hardware – are redefining the foundations of modern life. They’re not loud revolutions, but quiet ones, steadily transforming how we work, learn, and connect in 2025 and beyond.

Komal Singh R

4JN22AI024

AR/VR Workshop



We are currently participating in a four-week interactive AR/VR training program, out of which two weeks of hands-on sessions have been completed. The sessions began with Unity Hub, where during the first week we learned the basics of Unity and its functionalities. This week offered a perfect blend of theory and practical exercises, enabling participants to design a simple 3D coin-collecting game using AR/VR applications, which was both engaging and insightful. In the second week, we focused on building an AR-based mobile game application that could be controlled through a smartphone. As part of this session, we developed an AR car showroom where the car's color changes with the background music, providing a realistic and interactive showroom experience. This project helped us understand how to integrate various features into mobile applications and publish them on different platforms. These sessions provided us with a strong foundation in Augmented Reality concepts and their practical implementation. The upcoming third week will focus on Virtual Reality (VR) sessions, continuing our immersive learning journey.



About the Event

The preparations for Monaithon began on September 2nd, following which the event poster was released and widely promoted across colleges in Shimoga and Davangere. The poster was also circulated throughout Karnataka, garnering enthusiastic participation. A total of 170 teams registered for the event, out of which 42 teams were shortlisted based on specific selection criteria. Soon after, the event decorations and arrangements were initiated.

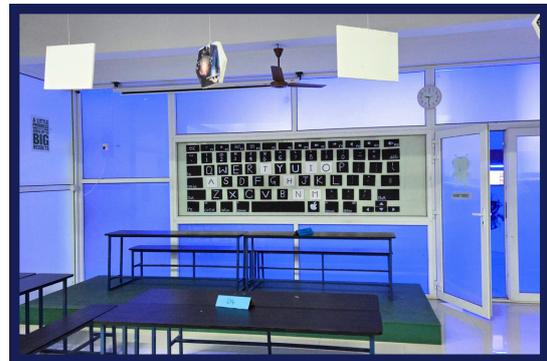
The Mainathon officially commenced on September 27th with an inauguration ceremony, followed by an insightful tech talk by the esteemed chief guests – Dr. Amod Jai Ganesh Anandakumar and Dr. Bhavani (Radiologist). This was succeeded by a tutorial session on the Mainathon tool, conducted by Dr. Chetan K.R., HOD of AIML, and a technical talk by Dr. Vijay Srinivas Agneeswaran.

Post-lunch, around 5:00 PM, the datasets were distributed, marking the official kick-off of the hackathon. The first round of evaluation took place around 12:00 AM, followed by the final evaluation at 10:30 AM. The judging panel included Mr. Karthik, Mr. Pruthvi, and Mr. Pratham Gujjar, an alumnus and mentor from the AIML department.

The event concluded with the valedictory ceremony held at 4:00 PM, graced by Mr. Karthik B.S., Founder of Unriddle Technologies, and Mr. Shivaprasad K., Managing Director of Freshers Profile. A cash prize of ₹40,000 was awarded to the top three teams, along with goodies and certificates for all participants, marking a successful and memorable conclusion to the event.

MonAIthon 2025

Glimpses of Event



Ayudha Pooja



The AIML Department organized a vibrant celebration of Ayudha Pooja with great enthusiasm and devotion. The event began with traditional rituals, creating a spiritually uplifting atmosphere across the department.

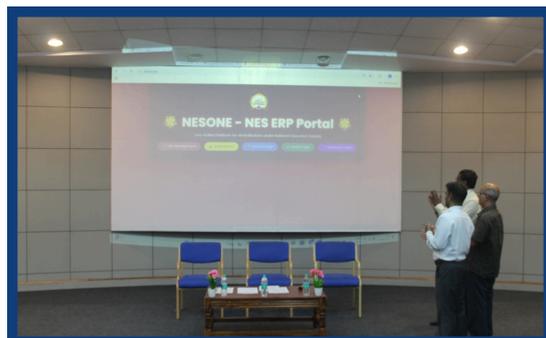
Our faculty members, staff, and students actively participated, contributing to the success of the celebration. We were also honored by the presence of faculty from other departments, who joined to share in the festive spirit. The pooja symbolized gratitude towards the tools and instruments that support our academic and professional work. Beautiful decorations and arrangements enhanced the cultural and spiritual essence of the occasion. Students took an active role in organizing and maintaining the pooja setup with dedication and teamwork. The event fostered a sense of unity and harmony among everyone present. The collective efforts of the AIML family made the celebration both meaningful and memorable. Overall, the Ayudha Pooja was a grand success, reflecting the department's vibrant and collaborative spirit.



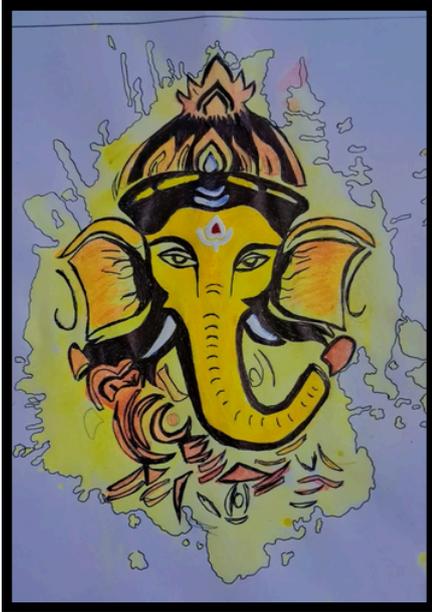
NESONE Inauguration



The Department of Artificial Intelligence and Machine Learning, JNN College of Engineering, proudly coordinated the inauguration of NESONE, an in-house developed ERP software that marked a significant milestone in the digital transformation of the NES institutions. The event was graced by Sri. Nagaraja S. N., Secretary of NES, Dr. Y. Vijay Kumar, Principal of JNNCE, and Dr. Chetan K. R., Professor and Head of AIML, along with employees and representatives from all 36 NES institutions, who gathered to celebrate this achievement. NESONE, a comprehensive ERP platform designed exclusively for the NES group, integrates key academic and administrative functions such as transport, fee collection, attendance, marks management, study certificates, and records maintenance into a unified, centralized system. This initiative aimed to enhance efficiency, accuracy, and transparency across all campuses, creating a cohesive digital ecosystem. The inauguration also included an informative session for deputed members from various NES institutions, offering insights into NESONE's features, modules, and benefits. Standing as a proud testament to the Department of Artificial Intelligence and Machine Learning's commitment to innovation and technological advancement, NESONE marked not just a software launch but a transformative step toward smarter, more connected institutional management across the NES group.



“STUDENTS’ ARTWORKS”



PRAJNA N KULAL
4JN23AI042



PRATHEEKSHA K N
4JN22AI402



SRUJANA S K
4JN24AI055



SUNIDHI
4JN22AI052



How many programmers does it take to change a light bulb?

None. It is a hardware problem!



How does a computer catch a fish?

By using the Internet.



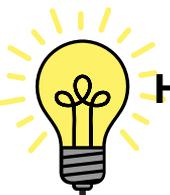
Why did the mother put airbags on the computer?

Because the computer might crash.



Why did the computer go to the dentist?

To get its Bluetooth checked.



How many types of people are there in the world?

There are 10 types of people in the world: those who understand binary and those who do not.

Department Of Artificial Intelligence & Machine learning

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(7th semester)