

SEPTEMBER EDITION '25

# AIML SPOTLIGHT

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## FROM THE DESK OF ASSOCIATE DEAN, SCSE



This edition of the AIML Spotlight highlights the growing impact of Machine Learning in driving intelligent, data-driven solutions across industries. Through hands-on projects, workshops, and research initiatives, our community continues to strengthen practical skills while emphasizing ethical and industry-relevant learning. As Machine Learning shapes the future of technology, we encourage learners to stay curious, think critically, and contribute to solutions that create positive societal impact.

**~Dr Roheet Bhatnagar, Associate Dean,  
School of CSE (AIML, IoT & IS, CCE, DS and Computer Applications)**

## FROM THE DESK OF HOD, AIML

I am delighted to express my views through the AIML Spotlight newsletter, a platform that highlights the progress, accomplishments, and forward-looking initiatives of the Department of Artificial Intelligence and Machine Learning. At the School of Computer Science and Engineering, our focus remains on nurturing original thinking, responsible leadership, and real-world impact. As AI and ML continue to redefine industries and society, it is truly motivating to witness the dedication and innovation demonstrated by our students and faculty. I commend the department for its continued efforts and invite readers to actively engage with this initiative as we collectively move toward a future driven by technology, imagination, and sustainable growth.



**~Dr Deepak Panwar, Head of Department AIML**

# SPACESEC'25



## MUJ Partners with Southern Federal University for SpacSec '25

The Department of AI & ML, Manipal University Jaipur, is proud to collaborate with Southern Federal University, Russia, for SpacSec'25—the 3rd International Conference on Cyber Warfare, Security & Space Computing, to be held from September 26–28, 2025, in Taganrog.

This international event will bring together global researchers, academicians, and industry leaders to explore advancements in cybersecurity, space computing, and emerging digital technologies. Through this partnership, MUJ aims to promote impactful research dialogues, knowledge sharing, and cross-border academic engagement.



We are confident that this collaboration will further strengthen Indo-Russian academic ties and contribute to innovation and excellence in AI, cybersecurity, and space technology at a global scale.

# HackForge '25



## AIML Community partners with Unstop for HackForge '25

The AIML Community, Manipal University Jaipur, in collaboration with Unstop, proudly presents HackForge—a 24-hour hackathon designed to ignite innovation, creativity, and problem-solving. was held on 29–30 August, HackForge invites passionate coders and tech enthusiasts to come together, build impactful solutions, and compete for an exciting ₹15K+ prize pool, fostering a spirit of collaboration and technological excellence.

This flagship hackathon will unite innovative students, developers, and tech enthusiasts to ideate, collaborate, and build cutting-edge solutions in an immersive coding environment. Through HackForge, the AIML Community aims to encourage practical learning, peer-driven innovation, and a culture of problem-solving.



# IDEATHON '25



MANIPAL UNIVERSITY JAIPUR

School of Computer Science and Engineering  
Department of Artificial Intelligence and Machine Learning  
&  
Atal Incubation Centre, Manipal University Jaipur (AIC-MUJ)  
in collaboration with  
BPR&D, CDTI, MHA (Govt. of India)  
&  
AIML Community Organize

IDEATHON 2025

SEPTEMBER 03-04, 2025

Invited Guests

Dr. Amandeep Singh Kapoor  
IPS, Director  
Central Detective Training Institute (CDTI)

Sh. Arun Machya  
Vice Principal at the Central Detective Training School (CDTS) in Jaipur, Rajasthan

Mr Baghav Sharma  
Founder of Skillednation Edutech

Keynote Speakers

Mr Kumal Jain  
Current Career Advisor for next 25 Years (2024-2048) India

Mr Ranak Jain  
Founder of MajorTSA Marketing, Co-founder at Webotics

## Department of AIML Organizes IDEATHON 2025 in Collaboration with AIC-MUJ, BPR&D, CDTI, and MHA

The Department of AI & ML, School of Computer Science and Engineering, Manipal University Jaipur, in association with AIC-MUJ and the AIML Community, proudly presents IDEATHON 2025, the event was held on September 3-4, 2025, uniting academia, industry, and government to foster innovation and ideation.



IDEATHON 2025 aims to unite students, researchers, professionals, and innovators to explore impactful ideas, emerging technologies, and real-world problem solving. Through expert keynotes, idea pitching, and collaborative discussions, the event seeks to promote innovation-led thinking, knowledge exchange, and practical solutions with societal relevance, while nurturing an entrepreneurial and research-driven ecosystem among participants.

# INTERNSHIP AND RESEARCH OPPORTUNITIES

## IIT Bhubaneswar Summer Internship 2025

Eligibility: Students enrolled in any degree program (UG/PG).

Duration: 3–8 weeks (May–July).

Apply by: 10th April 2025.  
<https://www.iitbbs.ac.in/>

## IIIT-Delhi Summer Internships 2025

Eligibility: UG/PG students.

Duration: Starts 6th May 2025 (8–10 weeks).

Apply by: 31st March 2025.

<https://iiitd.ac.in/placement/summer-internships>

## NIT Warangal Summer Internship 2025

Eligibility: UG/PG students from any engineering/tech stream.

Duration: 9 weeks (May–July).

Apply by: 11th April 2025.  
<https://admissions.nitw.ac.in/internship/>

## CERN Summer Studentship 2025

Eligibility: Undergraduate STEM students.

Duration: ~8–12 weeks (summer).

Apply by:  
<https://careers.cern/programmes/summer-studentship/>

# ARTICLES

## OpenAI Unveils Advanced Reasoning Model for Complex Tasks

OpenAI has introduced a new AI model focused on deeper reasoning and problem-solving across technical and creative domains. Designed to handle long-context understanding, structured decision-making, and multi-step workflows, the model is expected to enhance applications in software development, research analysis, and enterprise automation. OpenAI emphasized improved reliability, reduced hallucinations, and stronger alignment with ethical AI practices. Integration across developer APIs and productivity tools is planned in the coming months.

## Apple Expands On-Device AI with Privacy-First Features

Apple has announced a major expansion of on-device AI capabilities across its ecosystem, enabling smarter personalization while keeping user data secure. The new features include enhanced voice assistance, intelligent photo and text analysis, and real-time language processing—all processed locally on devices. Apple highlighted its focus on privacy-preserving AI, positioning on-device intelligence as a key differentiator in the competitive AI landscape.

## ISRO Advances Gaganyaan Program with Crew Module Tests

The Indian Space Research Organisation (ISRO) has successfully conducted critical tests of the Gaganyaan crew module, marking steady progress toward India's first human spaceflight mission. The tests validated life-support systems, crew safety mechanisms, and recovery operations. Officials stated that upcoming missions will further assess mission readiness, reinforcing India's growing capabilities in human space exploration.

## Global Cybersecurity Spending Rises Amid AI-Driven Threats

A new global technology outlook report indicates a sharp rise in cybersecurity investments as organizations confront increasingly sophisticated AI-powered threats. Enterprises are prioritizing zero-trust architectures, AI-based threat detection, and cloud security solutions to protect digital infrastructure. The report notes strong demand from sectors such as finance, healthcare, and critical infrastructure, with cybersecurity emerging as a top strategic priority worldwide.

# ACHIEVEMENTS

MANIPAL UNIVERSITY  
JAIPUR  
(University under Section 2(f) of the UGC Act)

Department of Artificial Intelligence & Machine Learning  
School of Computer Science & Engineering

**CONGRATULATION**



Aditya Vikramm Singhal  
B.Tech-AIML (2022-2026)  
Internship at Dell Technologies

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School of Computer Science & Engineering

**CONGRATULATION**



Aanchal Mittal  
B.Tech-AIML (2021-2025)  
Placed at NOKIA

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Department of Artificial Intelligence & Machine Learning  
School of Computer Science & Engineering

**CONGRATULATION**



Vibhor Sharma  
B.Tech-AIML (2021-2025)  
Placed at Dell

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Department of Artificial Intelligence & Machine Learning  
School of Computer Science & Engineering

**CONGRATULATION**



Aditi Sinha  
B.Tech-AIML (2021-2025)  
Placed at Tredence

# ACHIEVEMENTS



# AIML Quiz – Test Your Knowledge!

## Q1. What is the primary purpose of feature scaling in machine learning?

- a) Increase dataset size
- b) Improve model performance and convergence
- c) Remove missing values
- d) Convert labels to numbers

## Q2. Which algorithm is commonly used for regression problems?

- a) Decision Tree
- b) Linear Regression
- c) K-Means
- d) Naive Bayes

## Q3. What does underfitting indicate in a model?

- a) The model memorizes the data
- b) The model is too simple to capture patterns
- c) The model has too many parameters
- d) The model has zero error

## Q4. Which evaluation metric is best suited for imbalanced classification datasets?

- a) Accuracy
- b) Precision and Recall
- c) Mean Squared Error
- d) R-Squared

## Q5. What is the main role of an activation function in a neural network?

- a) Reduce training time
- b) Introduce non-linearity
- c) Normalize input data
- d) Initialize weights

## Q6. Which technique is used to prevent overfitting in deep learning?

- a) Data duplication
- b) Dropout
- c) Gradient ascent
- d) Feature elimination

# MEET THE TEAM

## FACULTY COORDINATORS



**Dr. Varun Tiwari**



**Dr. Amit Kumar Bairwa**

## CHIEF EDITOR



**Rishi Sharma**

# CONNECT WITH US



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