

DECEMBER EDITION '25

# AIML SPOTLIGHT

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## FROM THE DESK OF ASSOCIATE DEAN, SCSE



I am pleased to share my perspective through the AIML Spotlight newsletter, which serves as a window into the achievements, initiatives, and evolving vision of the Department of Artificial Intelligence and Machine Learning. Within the School of Computer Science and Engineering, we are committed to fostering creativity, ethical leadership, and solutions that address real-world challenges. In an era where AI and ML are rapidly transforming every sector, it is inspiring to see the passion and ingenuity reflected in the work of our students and faculty. I appreciate the department's continued dedication and encourage readers to actively participate in this journey as we shape a future powered by innovation, responsibility, and sustainable progress.

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

## FROM THE DESK OF HOD, AIML

This edition of the AIML Spotlight focuses on the expanding role of Artificial Intelligence in automation and decision-making systems across diverse domains. Through experiential learning, expert sessions, and interdisciplinary research, our community is developing strong technical foundations while promoting responsible and explainable AI practices. As intelligent systems continue to influence the future of innovation, we inspire learners to explore thoughtfully, question deeply, and build AI solutions that drive meaningful and sustainable societal progress.



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





# Manipal Premier League '25



AIML Community proudly presents the Manipal Premier League, a high-energy cricket tournament took place from 12–15 October at the university cricket ground. Designed to celebrate sportsmanship, teamwork, and competitive spirit, the event brings together enthusiastic players and teams to compete for an exciting ₹20K+ prize pool, creating an electrifying sporting atmosphere on campus.

The Manipal Premier League is designed to celebrate the spirit of cricket while promoting physical fitness, teamwork, and leadership among participants. Beyond the thrill of competition, the tournament fosters collaboration, resilience, and sportsmanship, encouraging players to perform under pressure and grow together as a team. It provides a dynamic platform for participants to showcase their skills, build lasting connections, and strengthen the sense of unity and pride within the university community through a shared passion for sport.





# Dean's List Ceremony



The Dean's List Ceremony celebrates academic excellence by recognizing students who have demonstrated outstanding dedication, consistency, and performance in their studies. This occasion honors hard work and perseverance, while inspiring peers to strive for higher standards of learning.

# 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

## **Google Expands AI Search with Generative Summaries**

Google has rolled out enhanced generative AI features in its search platform, enabling users to receive concise, context-aware summaries for complex queries. The update focuses on improving factual accuracy, multi-source synthesis, and real-time information retrieval. Google stated that these features are designed to support research, learning, and decision-making while maintaining transparency and responsible AI usage.

## **Samsung Introduces AI-Powered Health Monitoring in Wearables**

Samsung has announced new AI-driven health features for its latest wearable devices, offering advanced sleep analysis, stress detection, and personalized fitness insights. By leveraging on-device machine learning, the system provides real-time feedback while prioritizing user privacy. The company aims to strengthen preventive healthcare through continuous, data-driven wellness monitoring.

## **NASA Tests Next-Gen Satellite for Climate Monitoring**

NASA has successfully tested a next-generation Earth observation satellite designed to track climate change indicators with higher precision. Equipped with advanced sensors and AI-assisted data processing, the satellite will monitor atmospheric composition, ocean health, and land-use patterns. Scientists believe the mission will significantly enhance global climate research and forecasting capabilities.

## **Enterprises Accelerate Adoption of Generative AI in Business Operations**

A recent industry survey reveals a rapid increase in the adoption of generative AI across enterprise workflows, including customer support, data analytics, and content automation. Organizations report improved efficiency and faster decision-making, while also investing in governance frameworks to manage risks. The study highlights responsible deployment and workforce upskilling as key priorities for sustainable AI integration.



# ACHIEVEMENTS

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**School of Computer Science & Engineering**

**CONGRATULATION**



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Ahmedabad**



# AIML Quiz – Test Your Knowledge!

**Q1. What is the main objective of dimensionality reduction?**

- a) Increase training time
- b) Remove noise and redundant features
- c) Add more variables
- d) Improve data labeling

**Q2. Which algorithm is best suited for finding hidden patterns in unlabeled data?**

- a) Logistic Regression
- b) K-Means Clustering
- c) Random Forest
- d) Support Vector Machine

**Q3. What does a high bias in a model usually indicate?**

- a) Model is overly complex
- b) Model generalizes extremely well
- c) Model makes strong assumptions and is too simple
- d) Model has very low training error

**Q4. Which loss function is commonly used for binary classification problems?**

- a) Mean Absolute Error
- b) Mean Squared Error
- c) Binary Cross-Entropy
- d) Hinge Loss

**Q5. What is the purpose of cross-validation in machine learning?**

- a) Increase dataset size
- b) Tune hardware performance
- c) Evaluate model generalization
- d) Encode categorical features

**Q6. Which algorithm is an example of an ensemble learning method?**

- a) K-Nearest Neighbors
- b) Naive Bayes
- c) Random Forest
- d) Linear Regression

# MEET THE TEAM

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## FACULTY COORDINATORS



**Dr. Varun Tiwari**



**Dr. Amit Kumar Bairwa**

## CHIEF EDITOR



**Rishi Sharma**



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