



Aryabhatta

**Department of Computer
Science and Engineering**

Newsletter Highlights

Guest Lecture


Quiz Competition

Seminar

Industrial Visit



 www.iimtindia.net

 Plot no. 19 & 20, Knowledge Park III,
Greater Noida (U.P.)

 contact_gn@iimtindia.net

Oct-Dec 2024

VOLUME XX, ISSUE IV
NEWSLETTER

From Chief Editor's Desk



Dr. Navin Prakash
HOD, CSE

Envisioning the Future of Artificial Intelligence

Here's an introduction for an advertisement on Explainable AI that sets the stage for the benefits and importance of the technology. In today's rapidly evolving digital landscape, artificial intelligence is reshaping industries, enhancing decision-making, and driving innovation. However, as AI systems become increasingly complex, understanding how these systems arrive at their conclusions is more crucial than ever.

Explainable AI: By embracing Explainable AI, you can foster trust with your users, ensure compliance with emerging regulations, and enhance your overall decision-making processes. In an era where accountability and ethics in AI are paramount, AI stands at the forefront, bridging the gap between sophisticated technology and human understanding.

Machine Learning Interpretability: Utilize techniques like SHAP (SHapley Additive exPlanations) and LIME (Local Interpretable Model-agnostic Explanations) to provide clear, understandable explanations for individual predictions, allowing stakeholders to see which features influenced a decision.

Natural Language Processing (NLP): In an increasingly connected world, the ability to understand and interact with language is crucial. Natural Language Processing (NLP) harnesses the power of AI to enable machines to comprehend, interpret, and generate human language, revolutionizing how we communicate and do business.

Generative Adversarial Networks (GANs): These are a class of machine learning frameworks designed to generate new data that resembles an existing dataset. **Generator:** This network creates new data samples from random noise. Its goal is to produce data that is indistinguishable from real data.

Discriminator: This network evaluates the authenticity of the generated data by distinguishing between real data (from the training set) and fake data (produced by the generator). Its objective is to correctly identify whether the input data is real or generated.

The Computer Science & Engineering Department, accredited by the National Board of Accreditation (NBA), has been offering a B.Tech. course in Computer Science Engineering since 2005. The department is dedicated to achieving excellence among Indian colleges in its field, which is reflected in its state-of-the-art facilities and the commitment of its faculty members. The success of graduates in securing prominent positions in leading organizations highlights the quality of education provided.

Beyond technical education, the department aims to nurture leadership qualities in students, encouraging them to become job creators and entrepreneurs. This holistic approach not only supports individual growth but also drives economic development and innovation. Maintaining a positive and innovative learning environment, staying updated with industry trends, and providing value-added courses are essential components in preparing students for the ever-evolving field of Computer Science and Engineering. By continuing this dedication to excellence, the department will uphold its reputation and produce distinguished graduates in the future.

Dr. Navin Prakash
Professor
Chief Editor & HOD Dept. of CSE

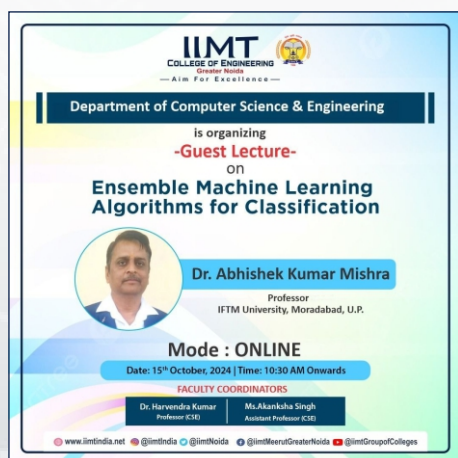
Oct-Dec 2024

VOLUME XX, ISSUE IV
NEWSLETTER

GUEST LECTURE

Ensemble Machine Learning Algorithms for Classification

The Session will provide an in depth knowledge into ensemble machine learning algorithms for classification, covering key concepts, popular methods like bagging and boosting, and hands- on implementation in Python. Participants will learn to evaluate model performance, optimize hyper-parameters, and address class imbalance, empowering them to effectively apply these techniques in real-world scenarios.



Dr. Abhishek Kumar Mishra delivering the session

QUIZ COMPETITION

Department of Computer Science And Engineering

The objective of a Quiz Competition on innovation and start-ups is to engage participants Innovation and start up through challenging quizzes Quiz Competition, organized by Ms. Monica Verma and Mr. Himanshu Gautam, aimed to assess and enhance participants' understanding of fundamental programming languages and technical concepts. The event provided a platform for students to showcase their knowledge, problem-solving skills, and coding proficiency.

Quiz winner are from 2nd year and 3rd year are:-

- **First winner from 3rd yr:- Nitish Kumar**
- **Second winner from 2nd yr:- Isha Kumari**
- **Third winner from 3rd yr:- Rishab Jain**

in learning about the dynamic and rapidly evolving fields of entrepreneurship, innovation, and business development.



SEMINAR ON

Detecting IPR Potential from Early Stage of Your Innovation

The objective of detecting Intellectual Property Rights (IPR) potential at the early stages of innovation is to strategically identify and protect valuable aspects of a new idea, enhancing its commercial viability and safeguarding competitive advantage.



Oct-Dec 2024

VOLUME XX, ISSUE IV
NEWSLETTER

INDUSTRIAL VISIT

Cetpa Infotech Pvt. Ltd.

The objective of the industrial visit to CETPA Infotech Pvt. Ltd. was to provide students with practical insights into industry practices, enhance their understanding of current technologies, and explore career paths in Full Stack Development and Data Science. This visit aimed to bridge the gap between academic learning and real-world applications, fostering a comprehensive understanding of industry standards and expectations. The objective of detecting Intellectual Property Rights (IPR) potential at the early stages of innovation is to strategically identify and protect valuable aspects of a new idea, enhancing its commercial viability and safeguarding competitive.



Oct-Dec 2024

VOLUME XX, ISSUE IV
NEWSLETTER

INDUSTRIAL VISIT

Croma Campus Pvt. Ltd.

The objective of the industrial visit to Croma Campus Pvt. Ltd. was to provide students with practical insights into industry practices, enhance their understanding of current technologies, and explore career path sin Full Stack Development and Data Science. This visit aimed to bridge the gap between academic learning and real-world applications, fostering a comprehensive understanding of industry standards and expectations. The protect valuable aspects of a new idea, enhancing its commercial viability and safeguarding competitive advantage.



Oct-Dec 2024

VOLUME XX, ISSUE IV
NEWSLETTER

Department of Computer Science & Engineering



CHIEF EDITOR

Prof. (Dr.) Navin Prakash
HOD, CSE



EDITOR

Ms. Akanksha Singh
Asst. Prof.



STUDENT EDITOR

Arpit Ranjan, B. Tech (CSE)
2nd Year

Sushant Sourav, B. Tech (CSE)
2nd Year

Greater Noida Campus

Mob. : +91 9911009144 | +91 9717015300

Plot no. 19 & 20, Knowledge Park III, Greater Noida (U.P.)