Report: Masterclass on Analytical Techniques Using AI/ML

Event Title: Masterclass on Analytical Techniques Using AI/ML
Resource Person: Mr. Balakrishna T
Organizers: IT Club and Computer Application Department
Venue: De Audi Depaul College
Date: February 21, 2025
Participants: BCA Students

Overview

The IT Club, in collaboration with the Computer Application Department of De Audi Depaul College, organized a masterclass on analytical techniques using Artificial Intelligence (AI) and Machine Learning (ML). The event, held on February 21, 2025, was specifically tailored for BCA students, aiming to bridge the gap between academic learning and industry practices in the field of data analytics and intelligent systems.

Objectives

- To introduce BCA students to the core concepts and applications of AI and ML in data analysis.

- To provide hands-on experience with analytical tools and techniques using AI/ML.

- To enhance students' understanding of how AI/ML can be leveraged for solving real-world problems.

- To inspire students to explore career opportunities and advanced studies in AI/ML.

Session Highlights

- **Introduction to AI and ML:**
  Mr. Balakrishna T commenced the session with a clear explanation of artificial intelligence and machine learning, outlining their significance in today's digital landscape.

- **Analytical Techniques:**
  The resource person discussed key analytical techniques such as data preprocessing, feature engineering, algorithm selection, and model evaluation.

- **Practical Demonstration:**
  A live demonstration was conducted, showing BCA students how to implement AI/ML models using popular tools and libraries. Students observed the process of data cleaning, model training, and result interpretation.

- **Case Studies and Applications:**
  Real-world examples were shared to illustrate the impact of AI/ML in various sectors, including finance, healthcare, and e-commerce.

- **Interactive Q&A:**
  Students actively participated in a question-and-answer session, clarifying doubts and discussing the scope and challenges of AI/ML in industry settings.

Key Takeaways

- **Enhanced Knowledge:**
  BCA students gained a foundational understanding of AI and ML, and how these technologies are applied in analytical processes.

- **Practical Exposure:**
  The hands-on session enabled students to experience the process of building and evaluating AI/ML models.

- **Industry Relevance:**
  The case studies provided insights into how analytical techniques using AI/ML are transforming businesses and society.

- **Motivation for Further Learning:**
  The masterclass motivated students to pursue further learning and projects in AI/ML.

Conclusion

The masterclass was well-received by the BCA students and faculty alike. It successfully provided students with practical exposure to analytical techniques using AI/ML, fostering a deeper interest in technology and innovation. The event underscored the importance of continuous learning and adaptation to emerging technologies in the field of computer applications.