Kalpataru Institute of Technology, Tiptur-572 201
(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)
Department of Artificial Intelligence & Machine Learning

One day Student Development Programme on Foundations of Artificial Intelligence: Concepts, Techniques, and Hands-on Problem Solving

Title of the Lecture: Artificial Intelligence **Date:** 20th of march 2025

Time: 09.00am to 05.00pm **Venue:** AI&ML Room No.301, AI&ML Lab1 & Lab2

Guest Speaker: Dr. Balaji Prabhu B V

Designation & Institution: Professor & Head, Dept. of CSE(AI&ML), MCE, Hassan

Organized by: Dept. of AI&ML, KIT, Tiptur

Introduction:

A one-day Student Development Programme on Foundations of Artificial Intelligence: Concepts, Techniques and Hands-on Problem Solving was organized by the Dept. of AI&ML on 20/03/2025. The workshop aimed to introduce participants to the fundamentals of AI, its applications, and recent advancements in the field. Expert from academia Dr. Balaji Prabhu B V conducted interactive sessions, providing valuable insights into AI and its impact on various sectors.

Objective of the Workshop:

The primary objective of the SDP is to provide attendees with in-depth knowledge about Artificial Intelligence. The session aimed to:

- To introduce participants to the basics of Artificial Intelligence.
- To explore the real-world applications of AI in various industries.
- To discuss the ethical implications and challenges associated with AI.
- To provide hands-on experience with AI tools and technologies.

Sessions and Activities:

The SDP was divided into multiple sessions, each covering a key aspect of AI:

1. **Inaugural Session:**
    - The event began with a welcome address by Dr. Raviprakash M L, followed by an introductory speech.

- A brief overview of AI, its history, and its significance in today's world was presented.

2. **Introduction to AI and Machine Learning:**
   - Explanation of AI, Machine Learning (ML), and Deep Learning.
   - Discussion on supervised, unsupervised, and reinforcement learning.
   - Demonstration of AI-driven applications in healthcare, finance, and automation.
3. **Ethical Considerations and Future Trends:**
   - Discussion on AI ethics, bias in AI, and responsible AI development.
   - Insights into emerging AI trends and future opportunities in AI careers.
4. **Hands-on Training Session:**
   - Practical implementation of AI models using Python.
   - Introduction to popular AI frameworks such as TensorFlow and Scikit-learn.
   - Live demonstration of a simple AI model.

Q&A Session:

A dedicated Q&A session followed the lecture, where students had the opportunity to clarify doubts and discuss ideas with the speaker. Dr. Balaji Prabhu B V provided practical solutions and recommendations, making the session interactive and informative.

Conclusion:

The SDP successfully provided participants with a fundamental understanding of AI, its applications, and future potential. Attendees actively participated in discussions and hands-on exercises, making the workshop highly engaging and informative. The event concluded with a vote of thanks by Dr. Raviprakash M L, expressing gratitude to the speaker, organizers, and participants for making the workshop a success.

Feedback and Recommendations:

Participants found the workshop insightful and appreciated the practical sessions. It was suggested that future workshops include more advanced topics and extended hands-on sessions to deepen AI expertise. The event was a significant success, contributing to the academic and personal growth of the participants.

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Photographs of the Workshop:

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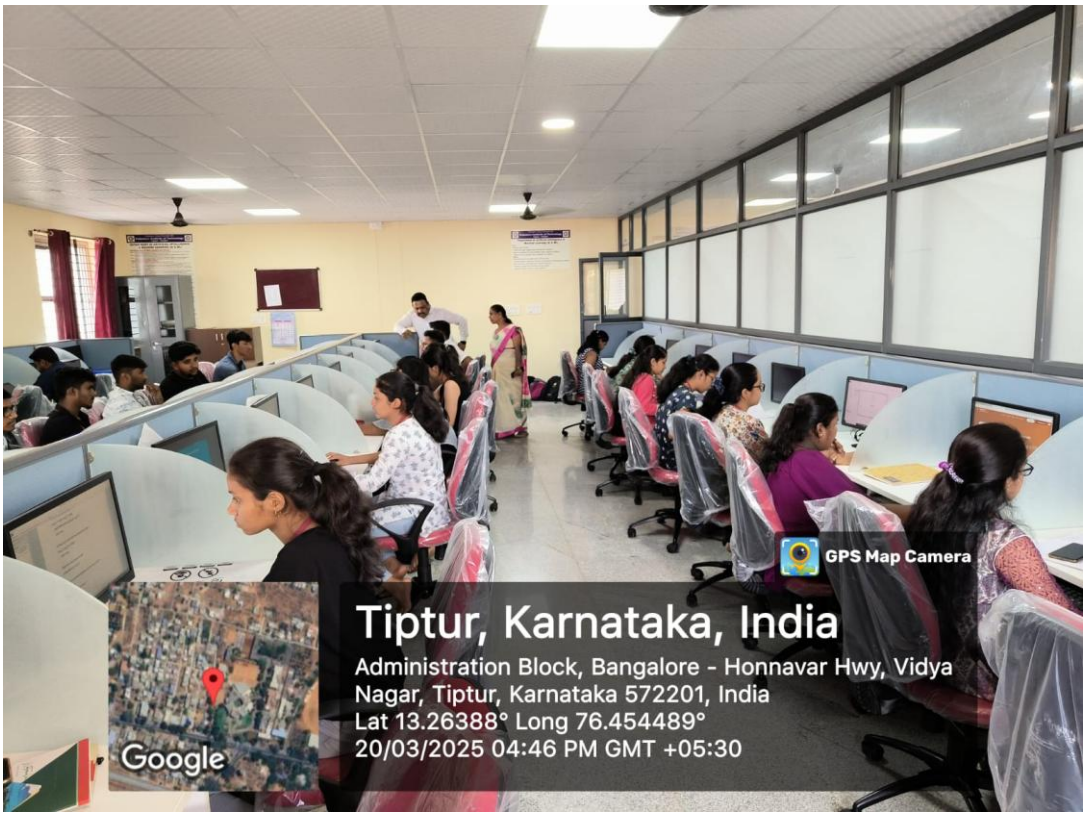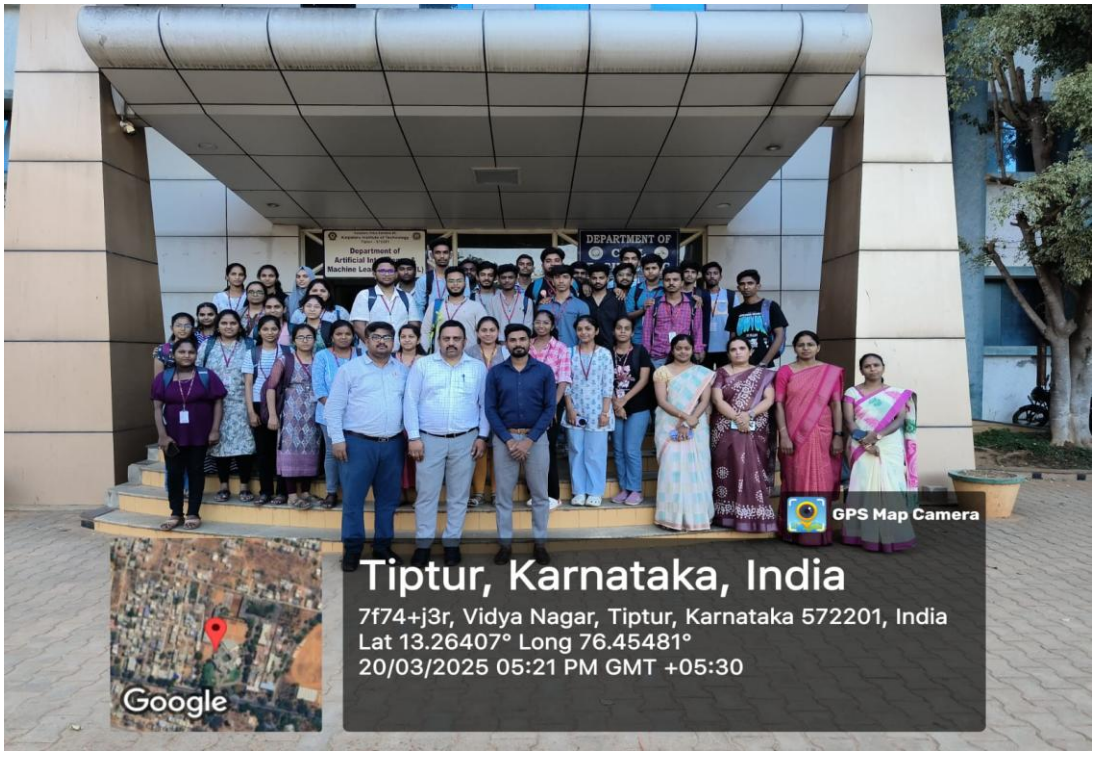
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