A Report on One-Day Guest Lecture on
"Development of Computer Vision System for an AI assistant"
Organised by Department of Computer Science & Technology
On 02.02.2024

Organized by: Mr. P. Firoze Khan, Assistant Professor, Department of CST;
Mr. D. Ashok, Assistant Professor, Department of CST
Submitted by: Mr. P. Firoze Khan, Assistant Professor, Department of CST
Resource Person Details: Dr. U. Srinivasulu Reddy, Associate Professor, Department of Computer Applications Machine Learning and Data Analytics Lab, Center for Excellence in Artificial Intelligence. National Institute of Technology, Tiruchirappalli.
Participants: III Year CST Students
Attendance: 72 participants
Venue: WB322
Mode: Offline
Report Received on 12.02.2024

Department of Computer Science & Technology has organized "One-Day Guest Lecturer on Development of Computer Vision System for an AI assistant" on **02.02.2024** (Friday) from 10:00 AM to 05:00 PM.

Welcome Address:

The event commenced promptly at 10:00 AM with a warm welcome address to all by **Mr. P. Firoze Khan**, **Assistant Professor, Department of CST,** Madanapalle Institute of Technology & Science **(**MITS), Madanapalle. The main objective of this Guest Lecturer on "Development of Computer Vision System for an AI assistant" is to integrating image processing algorithms, to interpret visual data, enabling tasks like object recognition, facial recognition and scene understanding. This enhances AI assistant capabilities to interact with and respond the visual environment.

Resource Person Lecture:

Dr. U. Srinivasulu Reddy, Associate Professor, Department of Computer Applications Machine Learning and Data Analytics Lab, Center for Excellence in Artificial Intelligence. National Institute of Technology, Tiruchirappalli.

The resource person delivered the following on Development of Computer Vision System for an AI assistant

Computer vision is the field of study that focuses on enabling machines to interpret and understand visual information from the outside world, much like human vision. It involves developing algorithms and systems that allow computer to analyse and make sense of image or videos. Major applications include image, facial, object recognition and scene understanding, contributing to advancements in fields like robotics, health care and autonomous systems.

An AI assistant, also known as a virtual assistant or digital assistant, it is a software application that uses an artificial intelligence to perform tasks or provide information based on user input. AI assistant can understand natural language, interpret commands and execute various functions such as setting reminders, answering questions or controlling smart homes devices. Popular examples include Siri, Google Assistant and Alexa.

The resource person provided participants with advanced knowledge and hands-on experience in Development of Computer Vision System for an AI assistant, focusing on deployment strategies and best practices. This includes mastering advanced features, functions, and capabilities of Computer vision with AI assistant to optimize deployment processes.

He also equipped the participants with enhancements of AI skills to identify and resolve common issues encountered in various domains. This includes understanding facial recognition for security, autonomous vehicles for navigation, medical imagining for diagnostics and retail for inventory management. Help participants to know about the importance of AI in present day-to-day life and drastically increase the usage of AI in various fields to move tasks very easily. This involves understanding different methods, in different fields. In the Guest Lecturer, provided large volume of information to reinforce learning of Computer vision with AI and allow participants to apply their knowledge in real-world scenarios.

Vote of thanks:

The workshop formally concluded with a vote of thanks delivered by **Mr. D. Ashok, Assistant Professor**, **Department of CST**. In his address, he expressed sincere gratitude to resource person for the time to share his expertise.

Outcomes:

At the end of Program, Students can able to,

1. Understand the key features and functions of Computer Vision with AI assistant.
2. Interpret and explain the importance of AI in various domains.
3. Apply number of algorithms to identify and solve complex scenarios with the help of AI assistant.
4. Analyze data and troubleshoot issues related to computer vision with AI.
5. Evaluate the Computer vision with and without AI assistant in real world.