



**SRI VENKATESWARA COLLEGE OF ENGINEERING AND TECHNOLOGY
(AUTONOMOUS)**

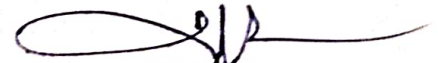
R.V.S. NAGAR, CHITTOOR-517 127, ANDHRA PRADESH

DEPARTMENT OF INFORMATION TECHNOLOGY

CIRCULAR

Date: 16-09-2021

It is hereby informed that our department is planned to organize a Guest Lecture to all the students of IT department on the topic "AI and Robotics" from 18-09-2021. All the students are instructed to use this opportunity and attend the same without fail.


HoD - IT

Copy to:

1. Principal sir for kind information
2. Circulate among the faculty
3. Circulate among the students



SRI VENKATESWARA COLLEGE OF ENGINEERING & TECHNOLOGY

(Autonomous)

RVS NAGAR, TIRUPATI ROAD, CHITTOOR (A.P)- 517127.

Department of Information Technology in association with ACM student chapter



Cordially invite you for the Online Guest Lecture on

"AI and Robotics"

Resource Person

Dr.Manjula V,

Associate Professor, VIT, Vellore.

Date: 18-09-2021

Event Coordinator

(Mr.K.ARAVIND)

HOD – IT

(Dr. J. VELMURUGAN)



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(AUTONOMOUS)
R.V.S. NAGAR, CHITTOOR-517 127, ANDHRA PRADESH
DEPARTMENT OF INFORMATION TECHNOLOGY**

Report: Guest Lecture on AI and Robotics

Organized By: Department of Information Technology, SVCET

Event Type: Guest Lecture

Resource Person: Dr. Manjula V, Associate Professor, VIT, Vellore

Date: 18th September

2021 Mode: Online

Venue: SVCET

Audience: IT Department students of SVCET

Coordinator: Faculty members of the Department of IT, SVCET

Head of the Department: Dr. J. Velmurugan

Introduction

The Department of Information Technology, SVCET, hosted an enlightening guest lecture on "*AI and Robotics*" on 18th September 2021. The lecture was delivered by Dr. Manjula V, an esteemed Associate Professor at VIT, Vellore, who has extensive expertise in artificial intelligence and robotics. The event aimed to provide IT students with insights into the rapidly advancing domains of AI and robotics and their transformative impact across industries.

Objective

The primary objectives of the guest lecture were:

- To introduce students to the fundamentals and applications of AI and robotics.
 - To explore the latest trends and research in these fields.
 - To inspire students to pursue innovative projects and careers in AI and robotics.
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Session Highlights

1. Welcome Address

The event began with a warm welcome by the faculty coordinator, followed by an introduction to Dr. Manjula V and her remarkable contributions to the field of AI and robotics.

2. Overview of AI and Robotics

Dr. Manjula started the session by explaining the synergy between AI and robotics, emphasizing how AI empowers robots with intelligence and decision-making capabilities. Key points included:

- Definition and scope of AI and robotics.
- Historical evolution and milestones in robotics.
- Current trends and future scope in AI-driven robotics.

3. Core Concepts

The lecture delved into the core concepts of AI and robotics, such as:

- Machine Learning and Deep Learning for autonomous systems.
- Computer vision in robotics for object detection and navigation.
- Natural Language Processing (NLP) for human-robot interaction.
- Robot operating systems (ROS) and their role in robot design.

4. Applications of AI and Robotics

Dr. Manjula highlighted real-world applications, including:

- Industrial automation and smart manufacturing.
- Healthcare robotics for surgery and patient care.
- Autonomous vehicles and drones.
- Robots in agriculture, logistics, and disaster management.

5. Challenges and Ethical Considerations

The session also covered challenges faced in AI and robotics, such as:

- Technical limitations and complexity in designing intelligent robots.
- Ethical issues like job displacement and AI accountability.
- Ensuring safety and reliability in autonomous systems.

6. Interactive Q&A Session

The lecture concluded with a lively Q&A session. Students asked insightful questions about career opportunities, the role of AI in robotics education, and the scope of interdisciplinary research.

Outcomes

- **Knowledge Enhancement:** Students gained a comprehensive understanding of AI and robotics and their interdisciplinary nature.
 - **Awareness of Trends:** Attendees were exposed to the latest research and innovations in the field.
 - **Career Inspiration:** The session inspired students to explore AI and robotics as potential career paths and pursue advanced research or entrepreneurial endeavors.
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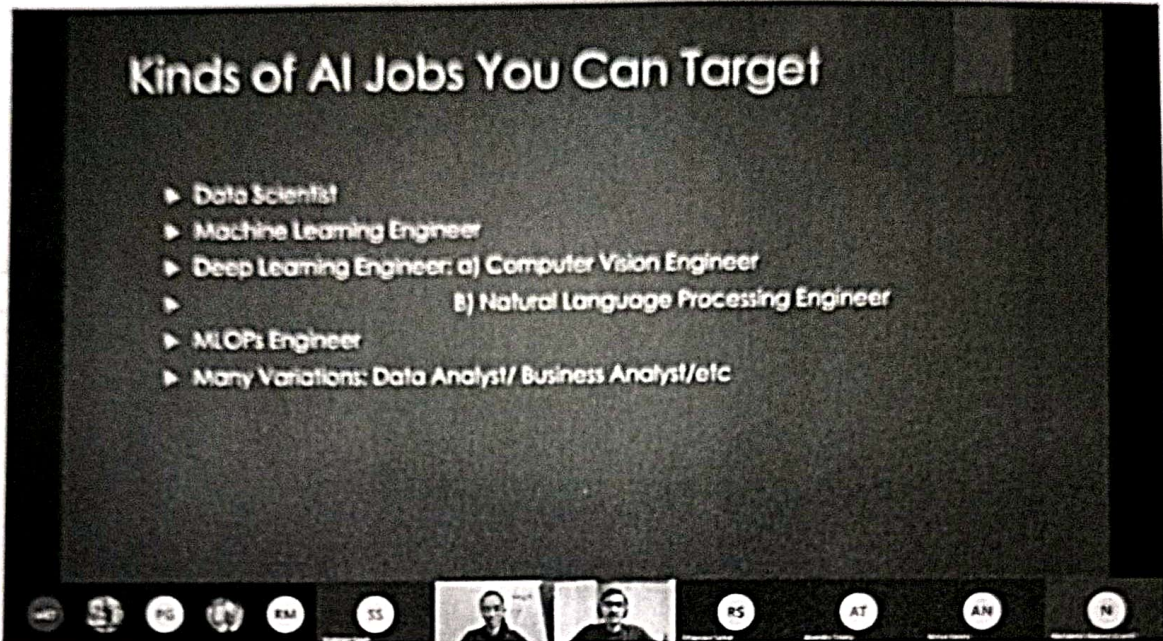
Feedback and Appreciation

The lecture received highly positive feedback from participants for its depth, clarity, and relevance. Dr. Manjula's expertise and engaging presentation style were particularly appreciated.

Dr. J. Velmurugan, Head of the Department, expressed gratitude to Dr. Manjula V for sharing her valuable insights and commended the faculty coordinators for organizing the event successfully.

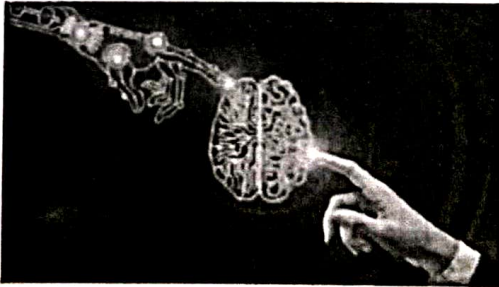
Kinds of AI Jobs You Can Target

- ▶ Data Scientist
- ▶ Machine Learning Engineer
- ▶ Deep Learning Engineer: a) Computer Vision Engineer
b) Natural Language Processing Engineer
- ▶ MLOPs Engineer
- ▶ Many Variations: Data Analyst/ Business Analyst/etc

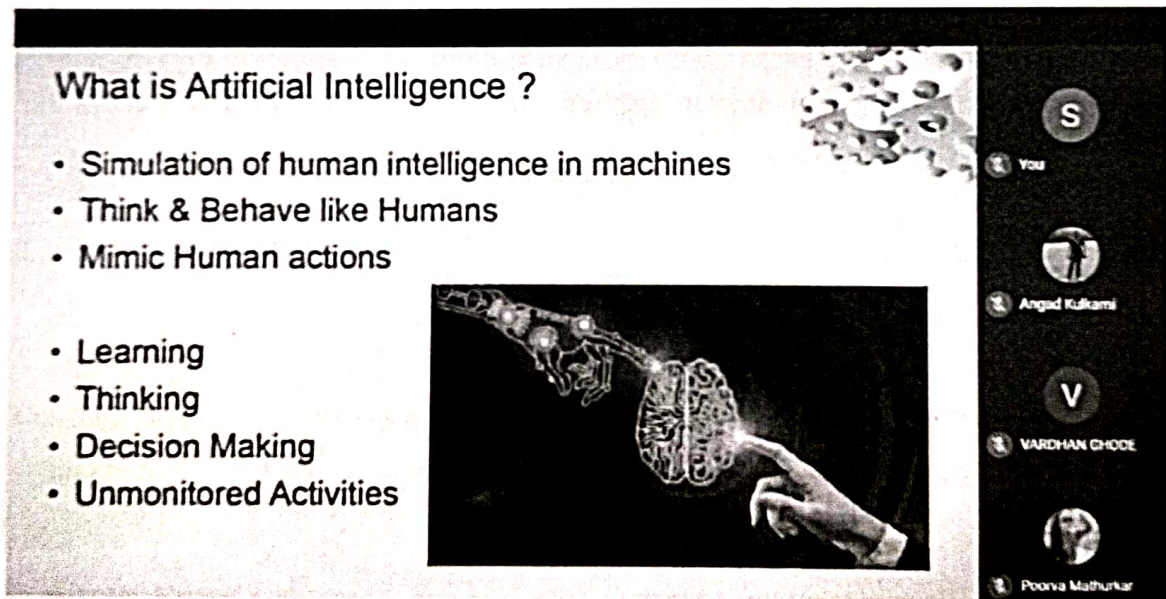
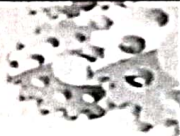
A screenshot of a Zoom meeting. The main window displays a presentation slide titled "Kinds of AI Jobs You Can Target" with a bulleted list of job roles. Below the slide, the Zoom interface shows a row of participant avatars, including two video feeds of the presenter and several circular icons for other participants.

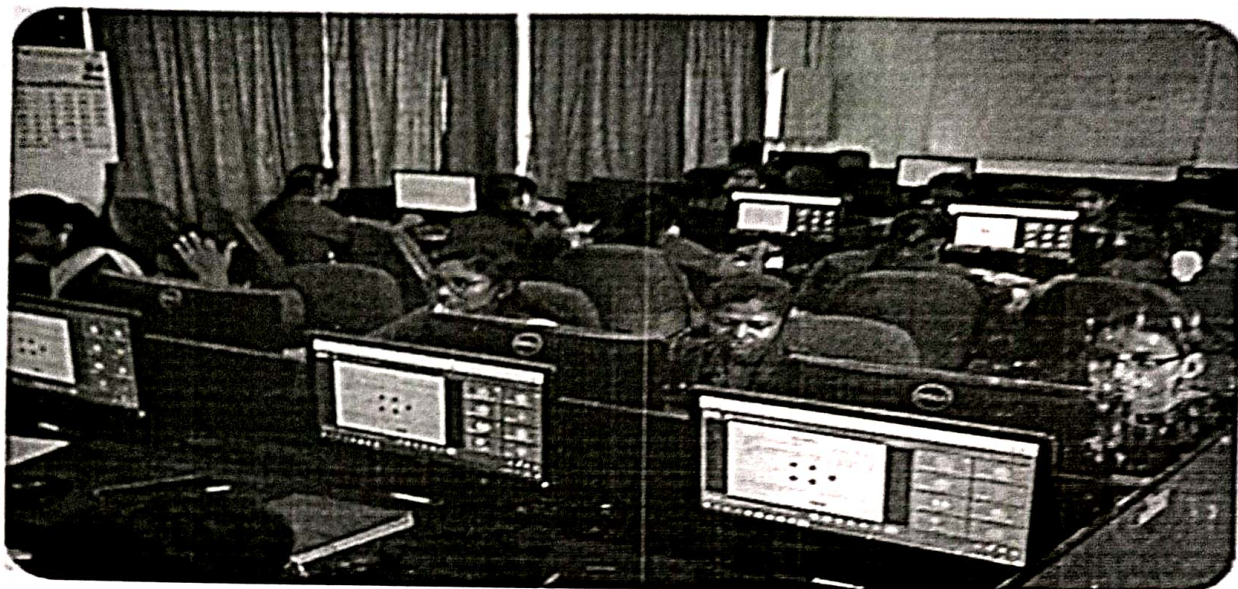
What is Artificial Intelligence ?

- Simulation of human intelligence in machines
- Think & Behave like Humans
- Mimic Human actions



- Learning
- Thinking
- Decision Making
- Unmonitored Activities

A screenshot of a Zoom meeting. The main window displays a presentation slide titled "What is Artificial Intelligence ?" with two bulleted lists of characteristics. The slide includes two images: one of a hand pointing at a brain with circuitry, and another of a brain with circuitry. To the right of the slide, the Zoom interface shows a vertical list of participant avatars, including "You", "Angad Kulkarni", "V", "VARDHAN CHOICE", and "Poorva Mathurkar".



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