



MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

(Autonomous Institution – UGC, Govt. of India)

DEPARTMENT OF COMPUTATIONAL INTELLIGENCE

Report on AI Based Innovations Webinar



**MALLA REDDY COLLEGE
OF ENGINEERING & TECHNOLOGY**

AI BASED INNOVATIONS

DEPARTMENT OF
COMPUTATIONAL INTELLIGENCE

10.08.2022

WEDNESDAY

Location :Main Auditorium
From 2pm onwards



Dr.S.Srinivas Rao
PRINCIPAL

Dr.P H V Sessa Talpa sai
Dean-R&D MRCET

Dr.D.Sujatha
HOD-CI

A Webinar on AI based innovations has been conducted on 10th Aug 2022 at Malla Reddy College of Engineering and Technology in Main auditorium. As we know, AI is dramatically changing the way the world works by making machines that are programmed to think like humans and mimic their actions. The influence of Artificial Intelligence technologies on society and human beings has been strong. The number of applications of AI is increasing, and the AI research field is expanding. The applications of AI range from speech recognition, problem-solving, learning and planning, etc. In this direction, Department of Computational Intelligence in association with Institution's Innovation Council has organized a Webinar on AI Based Innovations for III year CSE (AI/ML) students.

The programme is designed to enhance the learning and research skills of the participants, to make them aware about modern innovations in AI. It provides an opportunity to acquire knowledge about current technological developments in relevant fields.

The Webinar started in the afternoon at 02:00pm. Around 60 students have actively participated and gained useful information from the session. Ms. K. Nirosha Started the session by giving the brief introduction about the speaker and thanked him for accepting our request.

Dr. D. Sujatha, HOD of CI, welcomes the chief guest along with other dignitaries and briefly introduced the objective of the webinar to the participants. She briefly enlisted the application of AI in our daily life, the advantages of using the technology.

Dr. P H V Sessa Talpa Sai, Dean (R&D), addressed the participants about the working of Institution's Innovation Council and how it is useful for the students. He briefed about some of the applications in AI. He also encouraged the participants to utilize the opportunity to its maximum. He advised the participants if they could come up with some AI applications or with any ideas the IIC will help them to develop that to a prototype.

Dr. T. Senthil kumar, Associate Professor, Amrita School of Engineering, Coimbatore, the speaker for the day. He discussed about different algorithms like

K-Nearest Neighbour, Boosting algorithms, Convolution Neural Network algorithms etc and gave live examples. He shared about various innovations he had carried out in his university, and explained the about various innovations that students can start working on.

Photos Gallery



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INSTITUTION'S INNOVATION COUNCIL (Ministry of HRD Initiative)

ACCREDITED WITH GRADE **A** NAAC

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Dr.S.Srinivas Rao PRINCIPAL **Dr.P H V Sessa Talpa sai** Dean-R&D MRCET **Dr.D. Sujatha**

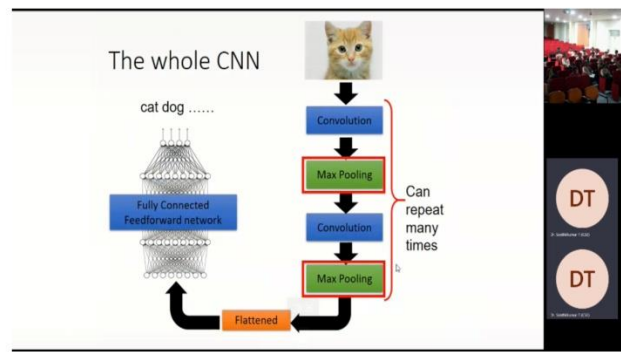


Dr. P H V Sessa Talpa Sai, Dr. D. Sujatha, Ms. K. Nirosha addressed the students.

K-means Clustering

- Strengths
 - Simple iterative method
 - User provides "K"
- Weaknesses
 - Often too simple → bad results
 - Difficult to guess the correct "K"

DT
DT



Consider learning an image:

- Some patterns are much smaller than the whole image

Can represent a small region with fewer parameters

"beak" detector

DT
DT

K-means Clustering

Basic Algorithm:

- Step 0: select K
- Step 1: randomly select initial cluster seeds

Seed 1
650

Seed 2
200

DT
DT

Dr. T. Senthil kumar explaining the concepts.



Students listening to the session.