

IEEE - MVSR STUDENT BRANCH Student Branch Code: 12161, School Code: 41329276



A Webinar on "AI Fundamentals"

IEEE MVSR SB CASS Student Chapter has conducted a webinar on "AI Fundamentals" on 14th February, 2021. This was conducted as most of the students wanted to get acquainted with the knowledge of Artificial Intelligence.

Student Branch Mentor:

Dr. Atul Negi,

Professor, School of CIS,

University of Hyderabad

Student Branch Advisor:

Dr. G. Kanaka Durga,

Principal and Professor,

MVSR Engineering College.

Student Branch Counsellor:

Dr. D. Hari Krishna,

Associate Professor, EEE Dept.,

MVSR Engineering College.

WIE Affinity Group Advisor:

Mrs. A. Vijaya Vahini,

Assistant Professor, IT Dept.,

MVSR Engineering College.

PES Student Chapter Advisor:

Dr. D. Hari Krishna,

Associate Professor, EEE Dept.,

MVSR Engineering College.

CS Student Chapter advisor:

Mrs. B. Saritha

Associate Professor, CSE Dept.,

MVSR Engineering College.

CASS Student Chapter Advisor:

Mrs. S. Aruna

Assistant Professor, ECE Dept., MVSR Engineering College.

Student Branch Executive Committee:

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& Content Writing Ms. K. Laxmi Priya

Session details:

Date: 14th February, 2021.

Time: 10:30am to 12:30pm.

No. of participants: 55

Speaker Details: Mr. Shashank Dhariwal works as a module lead in Bangalore, India. He has a rich technology experience in Artificial Intelligence, Biometrics and Computer Vision.

- He worked in Continental AG as a Technical Architect.
- His research concepts include Signal Processing and Embedded Systems.
- Received best paper award for IEEE UPCON conference in 2017.



Maturi Venkata Subba Rao **Engineering College** Affliated to Osmania University Nadergul, Hyderabad





IEEE MVSRSB CASS STUDENT CHAPTER Presents a

Webinar on



aculty Co-ordinators Mrs. S. Aruna

Al Fundamentals

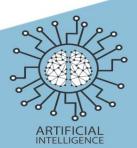
Date: 14 Feburary 2021 | 10:30 AM-12:30 PM IST

Venkat- 9505344510 Pranitha- 9182900528

Speaker:



Shashank Dhariwal Rich technology experience in Biometrics and Computer Vision Skilled at Machine Learning & Deep Learning, CNNs, Tensorflow, Theano



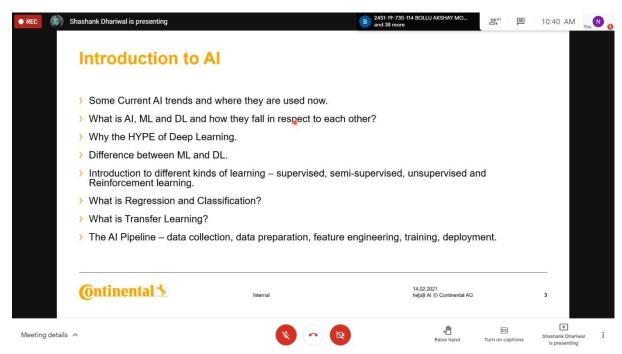
Poster of the Webinar

Ms. Pranitha, Vice Chair, CASS, IEEE MVSR SB has started the meeting by welcoming the speaker Mr. Shashank Dhariwal, Dr. D. Hari Krishna, Student Branch Counsellor, IEEE MVSR SB, Mrs. S. Aruna, CASS Advisor, IEEE MVSR SB, faculty members, ExCom and all the attendees.

Then, Dr. D. Hari Krishna had addressed the gathering, appreciated Mr. D. Venkat, Chairperson, IEEE MVSR CASS for conducting such useful events and shared the achievements of IEEE MVSR SB to the speaker.

Mrs. S Aruna, CASS Advisor, IEEE MVSR SB addressed the meeting and spoke about the bond she shared with the speaker. Next, she talked about the conduction of the workshop and thanked the speaker for accepting to share his knowledge.

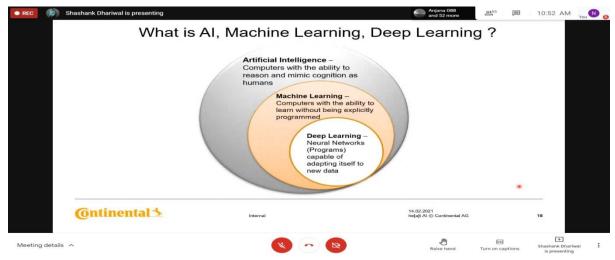
Thereafter, Ms. Anjana, Treasure, CASS, IEEE MVSR SB introduced the speaker to the attendees and has spoken about all of his achievements.



A Slide about Introduction to AI

The speaker, Mr. Shashank Dhariwal has started the workshop by giving an introduction about Artificial Intelligence to the attendees and detailed about it.

He spoke about the meaning of the term "Artificial Intelligence". He also told about the different versions of Raspberry Pi available and its application for Machine Learning and how there are added modifications to each advancing version.



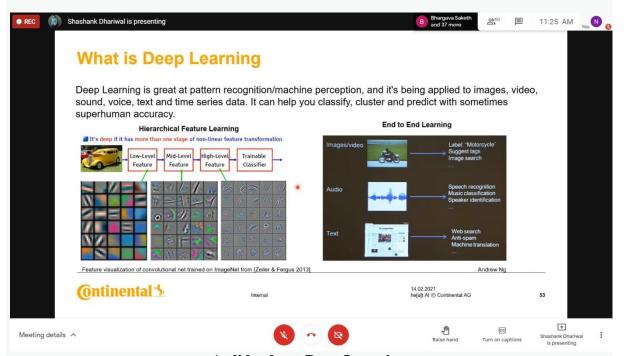
Relation between AL, ML and Deep learning

He shared the presentation by talking about the current trends in the field of AI. With the help of images, he explained the interconnection of Deep Learning, Machine Learning and Artificial Intelligence. He also spoke about how everything can be clubbed under the cloud of AI.

He quoted the different trends available in AI one by one and explained them in detail. He spoke about 'Alpha Go' the game. He explained how the algorithm works and how complex the code is.

He also spoke about the script of the movie 'Sunspring'. He explained how the entire script of the movie was written with the help of an AI enabled tool.

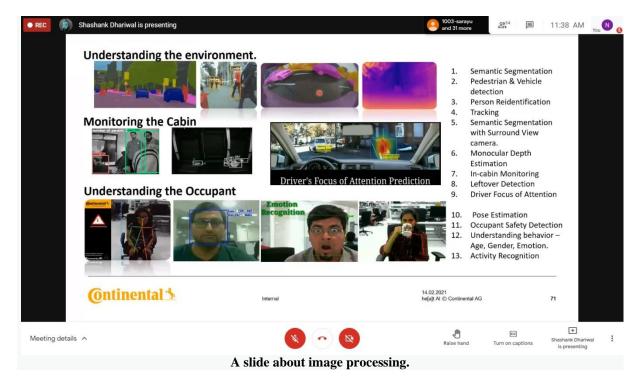
He then continued the session by explaining about 'Regression'. He spoke about its importance in Machine Learning. He said that Regression problems are those where the model will need to predict a real number.



A slide about Deep Learning

The session later was continued by the speaker by talking about Deep Learning and Neural Networks. He gave detailed description about them with help of well-versed examples and pictures.

He spoke about the complexity and the importance of Neural Networks. He said that these networks are very important in the computation of complex algorithms. He demonstrated about the fully connected layers and their classification of Neural Networks with an example.



The speaker next spoke about the ML pipelining: and Data Acquisition He also spoke about the data cleaning, Feature engineering, Model Training and Evaluation and Model deployment.

Finally with the help of some images, he explained about the Image applications and examples like the Activity Recognition, Semantic segmentation, Tracking, Monocular Depth.

Finally, The speaker answered all the questions with the assistance of pictures and sample code pieces. The session ended with a vote of thanks by Ms, Shreeya Rishi, Secretary, CASS. She thanked all the attendees for their time and presence.

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