

Amity Artificial Intelligence Club

Core Committee

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Student Details

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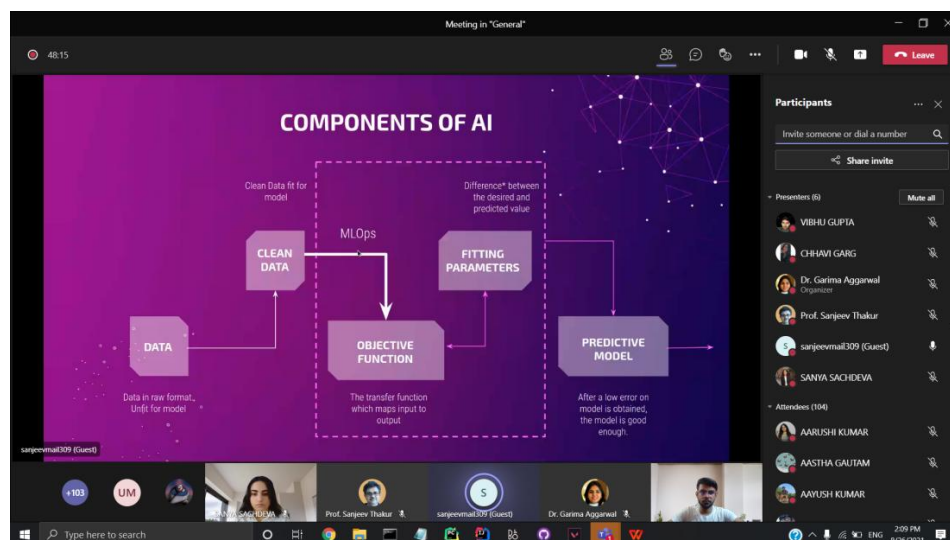
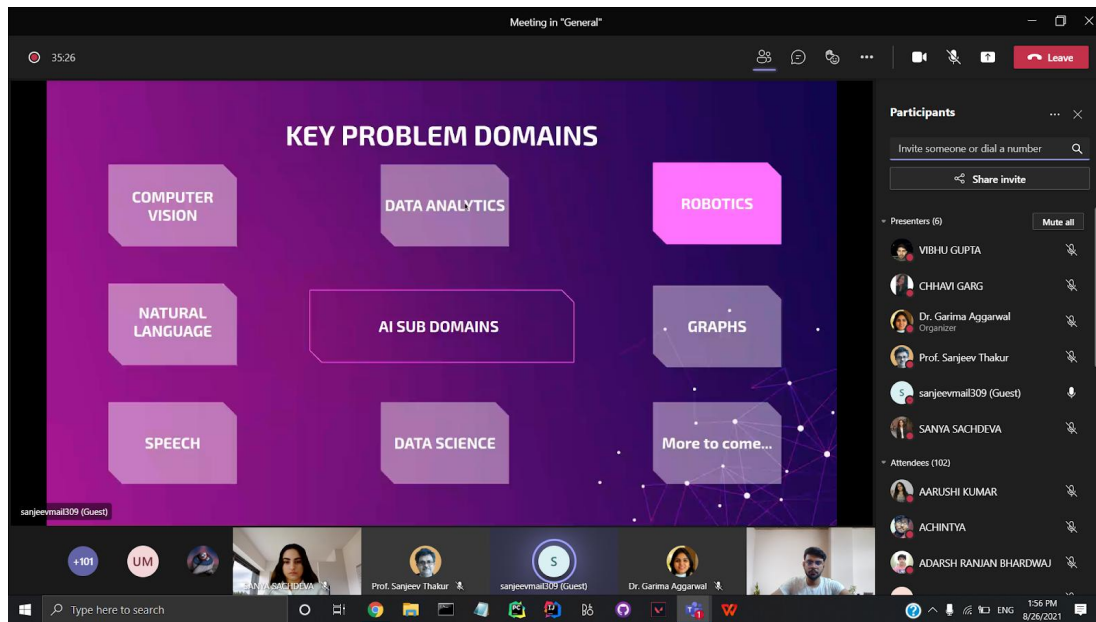
Event Details

S. No	Date	Name of event	No of participants	Student Coordinators	Venue
1	2/5/2020	Webinar on Data Science and Machine Learning	110	All	Online-MS Teams
2	17/04/2020	Why and How to learn Blockchain and Artificial Intelligence	60	All	Online-MS Teams
3	17/08/2020	Workshop on Machine Learning and Data Science	65	All	Online-MS Teams
4	22/10/2020	Smash Hack (Coding Challenge)	70	All	Online-MS Teams
5	4/3/2021	Workshop on Machine Learning : Where & How to start??	85	All	Online-MS Teams
6	25/3/2021	Starting with Open Source from Scratch	60	All	Online-MS Teams
7	26/8/2021	AI & ML What? Why? How?	100	All	Online-MS Teams
8	2/9/2021	Building Blocks of Computer Vision: CNN	100	All	Online-MS Teams

9	11/11/21	Introduction to Natural Language Processing	120	All	Online-MS Teams
10	11/2/22	Bringing AI to the Edge	150	All	Online-MS Teams
11	3/3/22	Computer Vision CNNs and Neural Style Transfers	100	ALL	Online-MS Teams

1. AI & ML What? Why? How?

The webinar profoundly explained the practical overview of how to pursue the fields of AI. Roles and responsibilities of professional assignments in this field such as those of data scientists and ML engineers were also looked into.



2. Building Blocks of Computer vision: Convolution Neural Networks

She further explained a CNN as a type of ANN used in image recognition and processing that is specifically designed to process pixel data. Live model was built using Keras from Tensorflow on a Jupyter Notebook using Python. Furthermore, the students learned how the complexity can be reduced using shared weights and nodes in a CNN.

The screenshot shows a Zoom meeting window. The main content is a slide titled "Multi Layer ANN Model : Convolution Neural Network Model". The slide lists the following points:

- More number of hidden layers
- A small model to recognize and classify images.
- From this fully connected model, do we really need all the edges?
- Can some of these be shared?

Below the text is a diagram of a fully connected neural network with four layers: an input layer, three hidden layers (labeled "hidden layer 1", "hidden layer 2", and "hidden layer 3"), and an output layer. Each layer contains a series of nodes, and every node in one layer is connected to every node in the next layer.

The Zoom interface includes a top bar with "Meeting now", "Request control", and "Leave" buttons. A "Participants" list on the right shows several attendees, including Dr. Chitra A. Dhawale, Vibhu Gupta, and others. The bottom of the screen shows a taskbar with various application icons and system tray information.

The screenshot shows a Zoom meeting window with a Jupyter Notebook open in the foreground. The notebook is titled "Training CNN Program" and shows the following code and output:

```
In [17]: 1 from keras.models import load_model
         2 classifier.save("D:\\LL1.H5")

In [ ]: 1 from tensorflow import keras
         2 model = keras.models.load_model('path/to/location')
```

The output of the first cell shows several warnings about invalid distributions and a message about upgrading pip. The second cell is currently empty.

The Zoom interface includes a top bar with "Meeting now", "Request control", and "Leave" buttons. A "Participants" list on the right shows several attendees, including Dr. Chitra A. Dhawale, Vibhu Gupta, and others. The bottom of the screen shows a taskbar with various application icons and system tray information.

3. Introduction to NLP

The webinar explained the basics of NLP and where it is used. Text Mining was explained first. The session was very interactive. The role of text was explained with real world examples. Label extraction and text was explained thoroughly. Sorting of emails, blogs and articles using NLP was touched upon.

Introduction to Natural Language Processing

42:36

Request control

Hide participants

Participants

- Presenters (0)
- Attendees (19)

NAMED ENTITY RECOGNITION

- Automatic identification of named entities in a given text document.
- Person, Organization, Location, Time and numbers are identified and tagged.
- Used in information extraction systems, machine translation systems, and cross-lingual information access systems.
- NER applications
 - Text summarization - identify all the name of characters in a novel.
 - Identify only the time and date information in a calendar event
 - PDF text extraction

Standard NER

Introduction to Natural Language Processing

43:34

Request control

Hide participants

Participants

- Presenters (0)
- Attendees (19)

Jai Ram.

Superb! Hare Krishna...very gud experience in my life...ossum...feeling blissful...amazing dishes and pics there...nd thakur ji always looking ossum...amazing langar...)

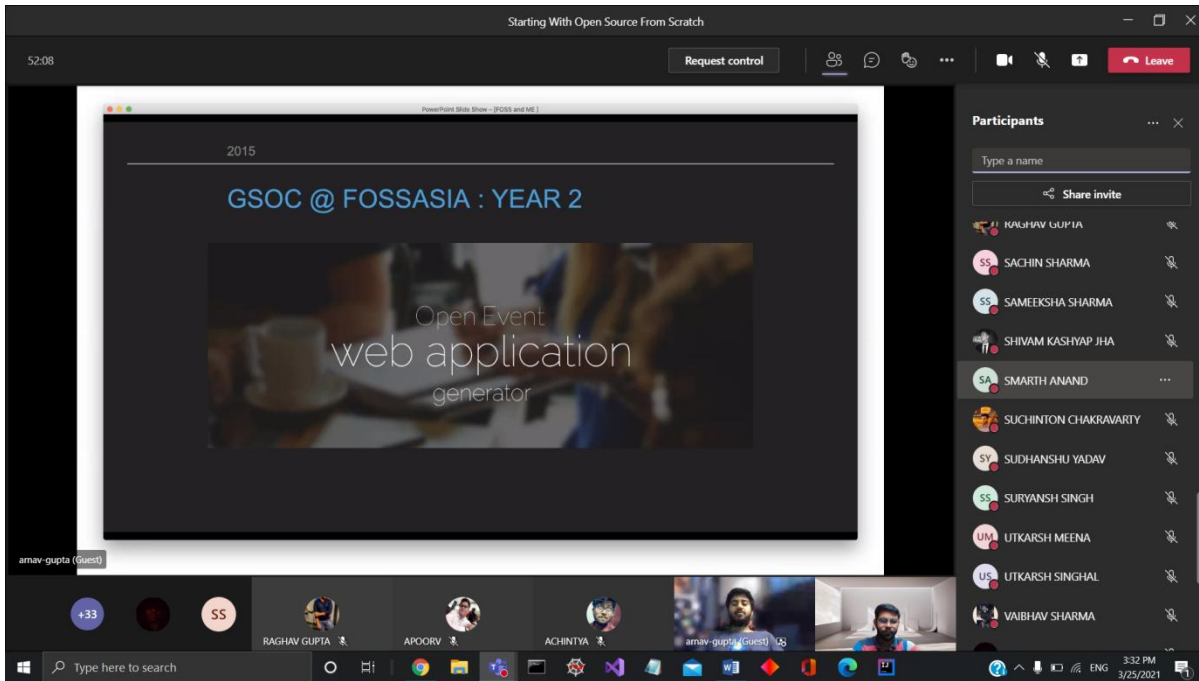
Piece Full

Spendid temple. Tres beau a visiter et propre. Reflete une image agreable a banglore.

Jai mata di...hare krishna ji...jes jagha per parmatma ka VIAS hai..No jagha SAWARIG se the SUNDAR hai...AGR

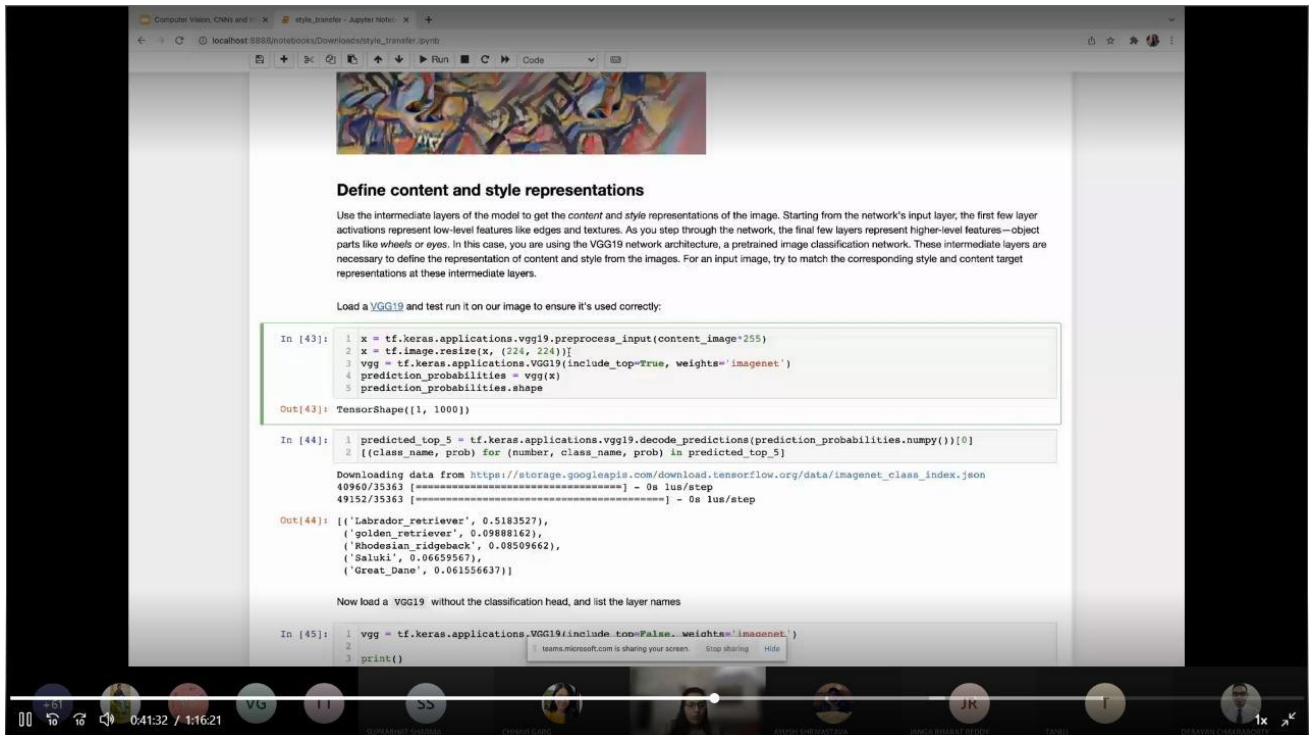
4. Starting with Open-Source from Scratch

The webinar profoundly explained the practical overview of how to get started with Open source how contributions play a major role in making a healthy community where developers can access the source code and solve issues in that code with raising pr's



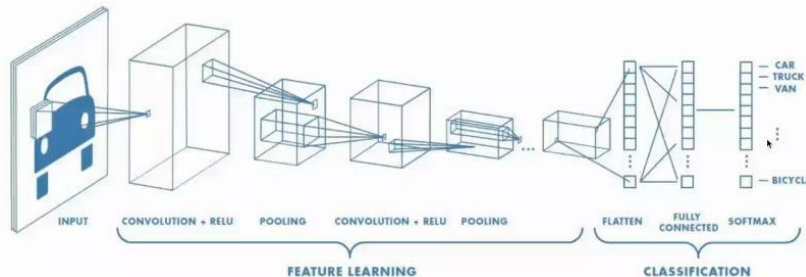
5. Computer Vision CNNs and Neural Style Transfers

The speaker concluded by explaining that beginners often run into problems installing the software because of different versions of Tensorflow but all such arising problems can be solved by referring to GitHub. She further informed that Neural Style Transfer also has use case scenarios in data augmentation. The event culminated with a round of audience questions being answered by the speaker.



CNN: Convolutional Neural Networks

The architecture of a ConvNet is analogous to that of the connectivity pattern of Neurons in the Human Brain and was inspired by the organization of the Visual Cortex. Individual neurons respond to stimuli only in a restricted region of the visual field known as the Receptive Field. A collection of such fields overlap to cover the entire visual area.



6. Bringing AI to the Edge

The speaker also thoroughly explained how different Multinational brands are implementing the Edge AI concept including NVIDIA Jetson, Intel Movidius NCS, etc. He also covered 5 examples to show how Edge AI can interpret pictures in scenarios such as Smart City Cameras where since Edge Inference doesn't require data storage so frames can be anonymously analyzed to preserve privacy, further it can be used to infer population density in a specific target area as well as the time of peak population in the area,

AI Adoption is just the beginning

In a recent Forrester Research survey...
58% of business and technology professionals said they're researching AI, but **only... 12%** said they are currently using AI systems.

Participants

- Presenters (0)
- Attendees (132)
- SANYA SACHDEVA
- CHHAVI GARG
- Dr. Garima Aggarwal (Organizer)
- Sid (Guest) (Meeting guest)
- VIBHU GUPTA
- ADITYA NARAYAN
- AARUSHI KUMAR
- AADITYA SINGH
- ANKANISHA SINGH
- ACHINTYA
- ADITYA CHOUDHARY
- AISHWARYA CHURAMANI
- AKSHAT NAWAK
- AKSHAT RANA
- AKULL NAINWAL

Windows taskbar: Type here to search, 21°C, 15:30, 11-02-2022