



Date:29/12/21

## Online Workshop on Deep Learning GAN model and its use cases

The Data Science Club of CSE Department, NECG has conducted Anonline workshop on "Deep learning GAN model and its use cases" on 29-12-2021 .This Workshop has been conducted by Data Science Club under the IEEE Student chapter Computer Society and it was organized by the students of data Science club members. HOD has been addressed the gathering.TheResource person addressedthe Third-yearstudentsandtoldthat. He has explained about the Generative adversarial networks(GAN), how to work with GAN using deep learning, Explained about decision tree how to recognize the object. Resource person **Dr. S. Sagar Imambi**, Professor in Department of CSE KLEF university, explained wellimportance of deep learning .

The screenshot shows a Zoom meeting interface. The main window displays a presentation slide titled "Machine Learning" and "Deep Learning". The slide content includes:

- Artificial Intelligence**: Engineering of making Intelligent Machines and Programs (1950's - 1970's)
- Machine Learning**: Ability to learn without being explicitly programmed (1980's - 2000's)
- Deep Learning**: Learning based on Deep Neural Network (2006's - 2017's)

The slide also features a diagram of a neural network and a text box explaining that deep learning algorithms are stacked in a hierarchy of increasing complexity and abstraction, allowing them to process large numbers of features.

On the right side of the Zoom window, a "Participants (72)" list is visible, including:

- Nikil (Me, participant ID: 481001)
- NECG (Host)
- Dr. S.S.Imambi (Co-host)
- Dr.V.Sucharita (Co-host)
- KASHIFA (Co-host)
- Yamini (Co-host)
- 18F11A0559
- 199C1A0509
- 19F11A 0541
- 19F11A0503
- 19F11A0505
- 19F11A0507

The Zoom meeting controls at the bottom show the time as 00:08:36, 2:42 PM, and the slide number as 5 of 35.

Zoom Meeting

Nikil KASHIFA Yamini **Dr. S.S.Imambi** Dr.V.Sucharita 19F11A0521

Recording

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### Machine Learning

Input → Decision tree → Output

### Deep Learning

Input → Feature extraction + Classification → Output

#### Deep learning Applications

- Healthcare
- Entertainment
- Competitive gaming
- Image coloring
- Robotics
- Image captioning
- Self-driving
- Earthquake prediction

No Notes.

Activate Windows  
Go to Settings to activate Windows.

Slide 6 of 35

Zoom Meeting

Nikil KASHIFA Yamini **Dr. S.S.Imambi**

Recording

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### Robotics

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#### Deep Learning Platforms

TensorFlow: The first was developed using the C++ language with an implementation in C. Today's Python implementation is called TF1.x.

Keras: Keras is a Python framework for deep learning. It is designed to be user-friendly and easy to use for both experts and novices.

PyTorch: PyTorch is an open-source deep-learning library developed by Facebook. It is designed to be user-friendly and easy to use for both experts and novices.

DL4J: Deep Learning for Java (DL4J) is the first deep-learning library written for Java and Scala. It's designed for Hadoop and Apache Spark.

No Notes.

Participants (60)

Find a participant

- Nikil (Me, participant ID: 481001)
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- 19F11A0507
- 19F11A0508
- 19F11A0510
- 19F11A0514

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Various points on the need of Data Science, Deep learning applications, Robotics were also discussed by the Resource person.