

**ISTE approved Six-Days Hands-on  
Online Faculty Development Program  
(FDP) on Deep Learning & it's  
Applications**

DATE: 11/07/2021

The Department of Computer Engineering of Xavier Institute of Engineering organized a ISTE approved Six-Days Hands-on Online Faculty Development Program (FDP) on Deep Learning & it's Applications coordinated by Ms. Beatrice and Mr. Vijay Jumb. The FDP was commenced at 10:00 am with a short prayer. The Director Fr. Dr. John Rose, S.J & Principal Sir Dr. Y. D. Venkatesh enlightened the participants about the importance of Deep Learning. The host then greeted the Guest Speaker Dr. M. Srinivas (from NIT, Warangal), who is an eminent speaker in Deep Learning. He further took on the spotlight by sharing the importance of Deep Learning, and further made it an interactive session by engaging everyone. Further the vote of thanks was given by Prof. Vijay Jumb.

The FDP on Deep Learning & its applications is one of the most exciting and promising segments of Artificial Intelligence and Machine Learning technologies. It is designed to help deep learning techniques and build deep learning models. Deep learning models can achieve state-of-the-art accuracy, sometimes exceeding human level performance.

**Objectives of FDP:**

- To introduce the deep learning models which are more appropriate for various types of learning tasks in various domains.
- To understand the concepts of Tensorflow, its main functions, operations and the execution.
- To master & comprehend advanced topics such as CNN, RNN, LSTM.
- To Implement deep learning models to solve real world

**Feedback from Participants:**

The participants appreciated the sessions conducted by eminent speakers and they gained the knowledge for their research work.

**Coordinator(s)**

**Ms. Beatrice S.  
Mr. Vijay Jumb**

**Date, Time & Place:**

**5<sup>th</sup> – 10<sup>th</sup> July, 2021  
10:00 am – 03:30 pm  
Google Meet**

**Department:**

**Computer Engineering**

**No of participants:**

**70 Participants**



Ms. Beatrice. S  
Co-ordinator



Mr. Vijay Jumb  
Co-ordinator



Dr. Saurabh Patil  
HoD

### Day-Wise FDP Schedule (5th to 10th July, 2021)

Weekdays	10:00 AM - 11:30 AM	11:45 AM - 1:15 PM	2:00 PM - 3:30 PM
05 Jul 2021	Introduction to Deep Learning Dr. M. Srinivas Assistant Professor Department of Computer Science & Engineering National Institute of Technology, Warangal	Deep Learning Models and Real-time Applications Dr. M. Srinivas Assistant Professor Department of Computer Science & Engineering National Institute of Technology, Warangal	3D Hand Pose estimation Mr. Marnim Galib Research Scholar University of Texas, Arlington
06 Jul 2021	Sales prediction using Regression Analysis Dr.S.Vairachilal Asso. Professor CVR College Of Engineering Telangana	Interview Status Prediction using Classification Dr.S.Vairachilal Asso. Professor CVR College Of Engineering Telangana	Academic Performance Prediction using Ensemble Algorithm Dr.S.Vairachilal Asso. Professor CVR College Of Engineering Telangana
07 Jul 2021	Tensorflow Ms. Kavita Jain Assistant Professor Department of Computer Engineering Xavier Institute of Engineering	Tensorflow Ms. Kavita Jain Assistant Professor Department of Computer Engineering Xavier Institute of Engineering	Convolutional Neural Networks Ms. Teena Varma Assistant Professor Department of Computer Engineering Xavier Institute of Engineering
08 Jul 2021	Sequence based models: RNN, LSTM, ESN Mr. Subba Reddy Oota Sr. Machine Learning Scientist, Woundtech Innovative Health Solutions	Attention mechanism, Encoder-Decoder Architecture Mr. Subba Reddy Oota Sr. Machine Learning Scientist, Woundtech Innovative Health Solutions	Hands on session on RNN Mr. Subba Reddy Oota Sr. Machine Learning Scientist, Woundtech Innovative Health Solutions
09 Jul 2021	Language Modeling with Transformers Mr. Subba Reddy Oota Sr. Machine Learning Scientist, Woundtech Innovative Health Solutions	Variants of Transformer: BERT/GPT-2/XLNET Mr. Subba Reddy Oota Sr. Machine Learning Scientist, Woundtech Innovative Health Solutions	Hands on session on Transformers Mr. Subba Reddy Oota Sr. Machine Learning Scientist, Woundtech Innovative Health Solutions
10 Jul 2021	Chronic Disease Prediction using Deep Learning Dr. S.Vairachilal Asso. Professor CVR College Of Engineering Telangana	One Sample T Test case study Dr. S.Vairachilal Asso. Professor CVR College Of Engineering Telangana	Two Sample T Test Case study Dr. S.Vairachilal Asso. Professor CVR College Of Engineering Telangana

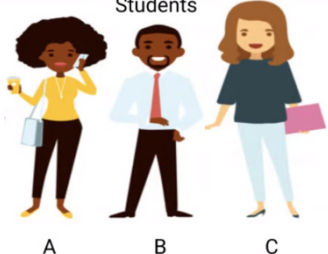
The Valedictory Function, Feedback session & Test will be scheduled at 3:30 pm on 10th July, 2021.

REC
Vairachilal S is presenting

## Over Fitting & Under Fitting


- ✓ Consider a math class consisting of **3 students** and a professor.
- ✓ Divide the students into **3 categories**.

Students



A      B      C

Professor




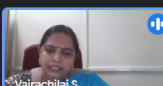
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FDP Session Link


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
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 You

 Vairachilal S

 Beatrice S

 Meryn Koonamparampath

 25 others