



# POTTI SRIRAMULU CHALAVADI MALLIKARJUNA RAO COLLEGE OF ENGINEERING & TECHNOLOGY

Sponsored by SKPVV Hindu High Schools' Committee, Estd : 1906

Approved by AICTE, New Delhi, Affiliated to JNTUK Kakinada

Accredited by NAAC, NBA for B.Tech Programmes in CSE, ECE & EEE, ISO 9001:2015 Certified

## 6.3.3 Percentage of teaching and non-teaching staff participating in Faculty development Programmes (FDP), professional development /administrative training programs during the A.Y.: 2020-21.

### Teaching Staff

S.No.	Name of the participant	Title of the FDP	Dates (from-to) (DD-MM-YYYY)
1	T Naresh	Two Week FDP on Machine Learning in Computer Vision & Video Processing	19.04.2021 to 1.05.2021
2	P Sri Silpa	Two Week FDP on Machine Learning in Computer Vision & Video Processing	19.04.2021 to 1.05.2021
3	V Sowjanya	Two Week FDP on Machine Learning in Computer Vision & Video Processing	19.04.2021 to 1.05.2021
4	Naresh	Two Week FDP on Machine Learning in Computer Vision & Video Processing	19.04.2021 to 1.05.2021
5	K Sudhakar	Two Week FDP on Machine Learning in Computer Vision & Video Processing	19.04.2021 to 1.05.2021
6	V Sowjanya	Machine Learning in Image processing Applications	15.03.2021 to 27.03.2021
7	K Sudhakar	Machine Learning in Image processing Applications	15.03.2021 to 27.03.2021
8	P Sri Silpa	Machine Learning in Image processing Applications	15.03.2021 to 27.03.2021
9	T. Naresh	Machine Learning in Image processing Applications	15.03.2021 to 27.03.2021
10	V. L Satyanaraya	Machine Learning in Image processing Applications	15.03.2021 to 27.03.2021
11	R Durga Bhavani	Machine Learning in Image processing Applications	15.03.2021 to 27.03.2021
12	A V Kiranmai	Machine Learning in Image processing Applications	15.03.2021 to 27.03.2021
13	T Naresh	Machine Learning and Its Applications	12.02.2021 to 25.02.2021
14	P Sri Silpa	Machine Learning and Its Applications	12.02.2021 to 25.02.2021
15	V Sowjanya	Machine Learning and Its Applications	12.02.2021 to 25.02.2021
16	K Sudhakar	Machine Learning and Its Applications	12.02.2021 to 25.02.2021
17	T. Naresh	Machine Learning and Its Applications	12.02.2021 to 25.02.2021
18	A Pathanjali Sastri	A Five Day FDP on Moving To Master Science in Technology (MMTS:2020)	16.06.2020 to 20.06.2020
19	K Nageswara Rao	A Five Day FDP on Moving To Master Science in Technology (MMTS:2020)	16.06.2020 to 20.06.2020
20	Sk Akbar	A Five Day FDP on Moving To Master Science in Technology (MMTS:2020)	16.06.2020 to 20.06.2020
21	D Durga Prasad	A Five Day FDP on Moving To Master Science in Technology (MMTS:2020)	16.06.2020 to 20.06.2020
22	G Padmaja	A Five Day FDP on Moving To Master Science in Technology (MMTS:2020)	16.06.2020 to 20.06.2020

  
PRINCIPAL

Potti Sriramulu Chalavadi Mallikarjuna Rao  
College of Engineering & Technology  
Kothapet, VIJAYAWADA-520 001.

D.No. 7-3-6/1, Raghava Reddy Street, Kothapet, Vijayawada - 520 001, A.P.

Voice : 0866-2423442, 9177777855, Fax : 0866-2423443, E-mail : principal@pscmr.ac.in. Website : www.pscmr.ac.in.





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S.No.	Name of the participant	Title of the FDP	Dates (from-to) (DD-MM-YYYY)
23	K Sudhakar	A Five Day FDP on Moving To Master Science in Technology (MMTS:2020)	16.06.2020 to 20.06.2020
24	T Anand	A Five Day FDP on Moving To Master Science in Technology (MMTS:2020)	16.06.2020 to 20.06.2020
25	I Murali Krishna	A Five Day FDP on Moving To Master Science in Technology (MMTS:2020)	16.06.2020 to 20.06.2020
26	B Hanumantha Rao	A Five Day FDP on Moving To Master Science in Technology (MMTS:2020)	16.06.2020 to 20.06.2020
27	V Navya Sree	A Five Day FDP on Moving To Master Science in Technology (MMTS:2020)	16.06.2020 to 20.06.2020
28	G V R S K Prasad	A Five Day FDP on Moving To Master Science in Technology (MMTS:2020)	16.06.2020 to 20.06.2020
29	V Sowjanya	A Five Day FDP on Moving To Master Science in Technology (MMTS:2020)	16.06.2020 to 20.06.2020
30	B Sarath Chandra	A Five Day FDP on Moving To Master Science in Technology (MMTS:2020)	16.06.2020 to 20.06.2020
31	S Babu Rajender Prasad	A Five Day FDP on Moving To Master Science in Technology (MMTS:2020)	16.06.2020 to 20.06.2020
32	A Chandra Mouli	A Five Day FDP on Moving To Master Science in Technology (MMTS:2020)	16.06.2020 to 20.06.2020
33	B Srikanth Reddy	A Five Day FDP on Moving To Master Science in Technology (MMTS:2020)	16.06.2020 to 20.06.2020
34	P Sri Silpa	A Five Day FDP on Moving To Master Science in Technology (MMTS:2020)	16.06.2020 to 20.06.2020
35	M Udaya Tejaswini	A Five Day FDP on Moving To Master Science in Technology (MMTS:2020)	16.06.2020 to 20.06.2020
36	K Uday Sankar	A Five Day FDP on Moving To Master Science in Technology (MMTS:2020)	16.06.2020 to 20.06.2020
37	M Deepika	A Five Day FDP on Moving To Master Science in Technology (MMTS:2020)	16.06.2020 to 20.06.2020
38	O Sravani	A Five Day FDP on Moving To Master Science in Technology (MMTS:2020)	16.06.2020 to 20.06.2020
39	M Ramya	A Five Day FDP on Moving To Master Science in Technology (MMTS:2020)	16.06.2020 to 20.06.2020
40	Md Haji Ali	A Five Day FDP on Moving To Master Science in Technology (MMTS:2020)	16.06.2020 to 20.06.2020

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S.No.	Name of the participant	Title of the FDP	Dates (from-to) (DD-MM-YYYY)
41	Md.Khasimpeera	A Five Day FDP on Moving To Master Science in Technology (MMTS:2020)	16.06.2020 to 20.06.2020
42	Ch B V Durga	A Five Day FDP on Moving To Master Science in Technology (MMTS:2020)	16.06.2020 to 20.06.2020
43	M Kalpana	A Five Day FDP on Moving To Master Science in Technology (MMTS:2020)	16.06.2020 to 20.06.2020

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COLLEGE CODE : PSCV [ EAMCET, ECET, ICET, POLYCET ]



Date: 28/03/2021

**CIRCULAR**

Department of Electronics and communication engineering has planned to conduct a **Two Week Faculty Development Programme on Machine Learning in Computer Vision & Video Processing** from **01.04.2021 to 19.04.2021**. Faculties are asked to attend the program without fail.

Venue: Second Floor-Mini Seminar Hall

Time: 10:00AM to 12:00PM and 2:00PM to 4:00PM



**HOD-ECE**

Potti Sriramulu Chalavadi Mallikharjuna Rao  
College of Engineering & Technology  
Kothapet, VIJAYAWADA-520 001.

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## **Two-week Faculty Development Program on “Machine Learning in Computer Vision & Video Processing” in association with AICTE.**

**1<sup>st</sup> April to 19<sup>th</sup> April 2021**

**FDP Coordinator: Dr.M.Ranga Rao**

Machine/Deep learning is the science of designing and applying algorithms that can learn things from past cases. Computer Vision tries to do what a human brain does with the retinal data that means understanding the scene based on image data. Video signal is basically a sequence of time varying images. Computer Vision and Video processing are used in innovative and exciting applications in fields of speech, audio, Video and in medical applications.

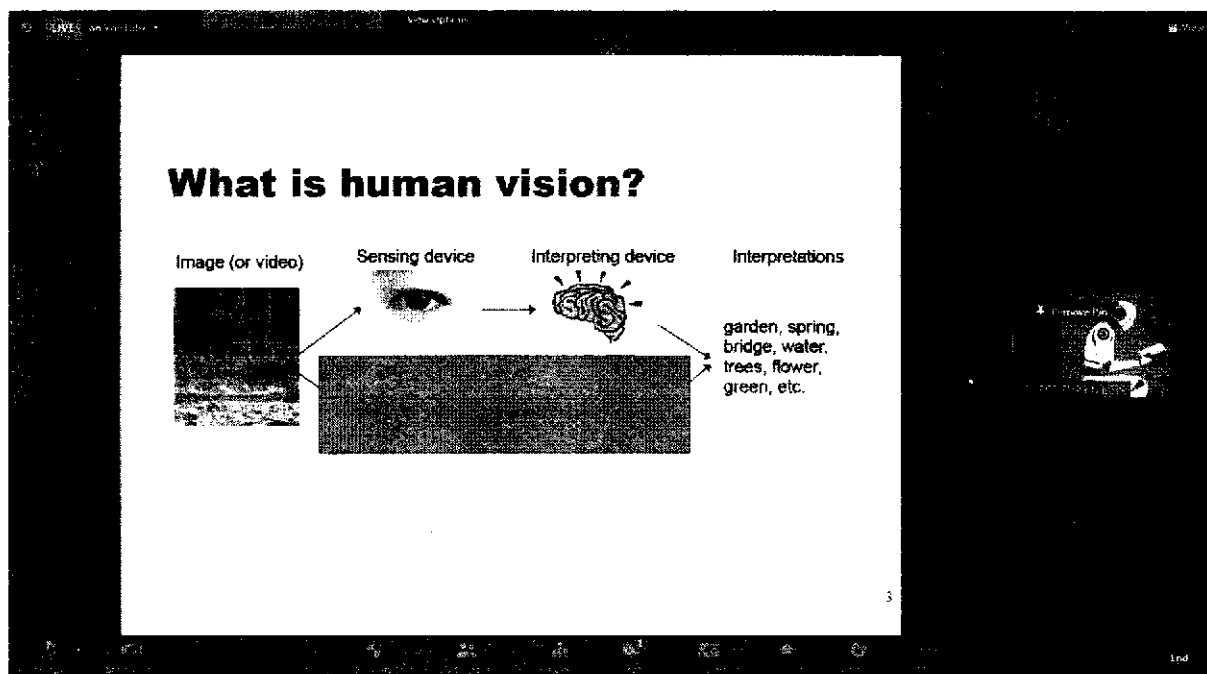
### **Objective of this FDP:**

- It is necessary to make faculty of Engineering colleges, Universities, and people from industry aware of opportunities and challenges in the field.
- To create awareness about Machine Learning and how it can be applicable in the field of Computer Vision and Video Processing techniques and its importance over traditional techniques.
- To create awareness about the applications of Machine Learning, Computer Vision and Video Processing.
- To promote Research in the area of Computer Vision, Video Processing by applying various ML techniques.
- To enhance faculty confidence level while teaching concepts of Computer Vision, Video Processing by applying various ML techniques.
- To bridge the gap between industry and academia.
- To serve as an induction program for Ph.D researchers working in the area of Computer Vision, Video Processing, Machine Learning.
- To provide a forum for academicians and researchers to discuss emerging trends in aforementioned areas.

**Day 1, 1<sup>st</sup> April 2021**

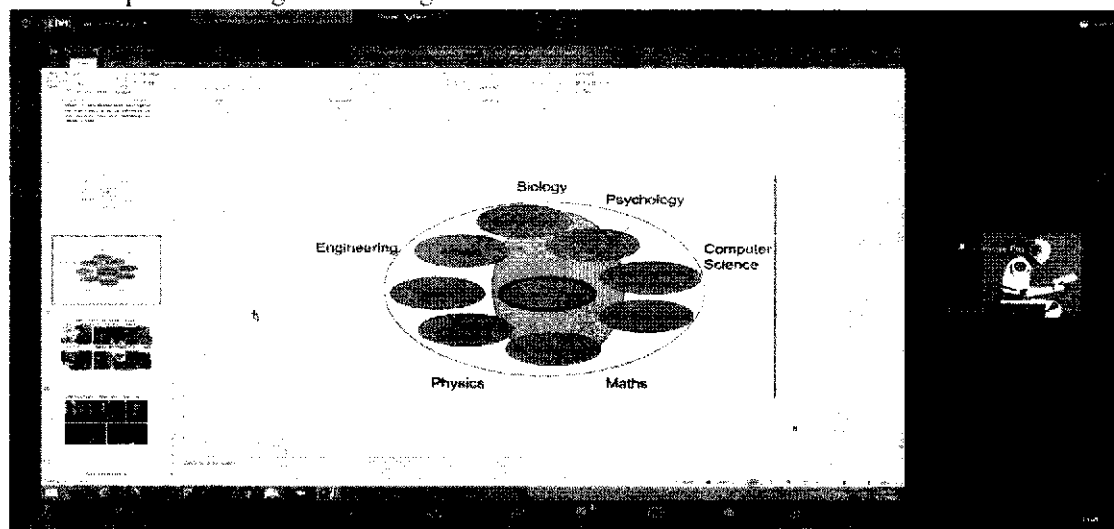
Inaugural function started at 10.00 AM. FDP coordinator Dr.M.Ranga Rao welcomed all the participants and gave a brief idea about program and basic theme on which all the sessions would be carried out in the duration of program. Hon'ble principal Dr.Sri RamaKrishna and convener Dr.A.Ravi greeted all the participants and gave their valuable thoughts on importance of such programs. They congratulated Dr.M.Ranga Rao for arranging Online FDP and wished all the participants a good time ahead.

Keynote was delivered by Dr. T. Kishore Kumar, Professor, NITW. Theme of the speech was **Introduction to Computer Vision** which is essentially inline with subject of FDP.

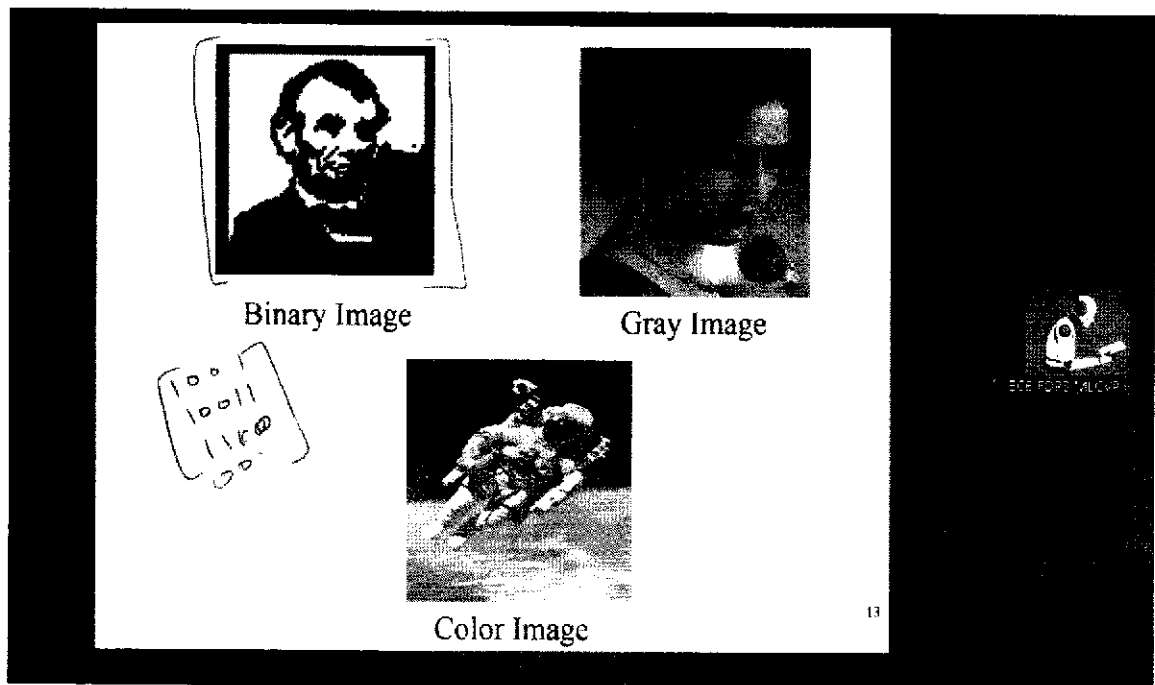


This session was very informative and interesting as it is covered the topics beginning from the very basic including definition of Computre Vision to application ares where we can use it.

Post lunch session was supervised by **Dr. U.S.N. Raju, Asst.Professor, NITW** explained **“Introduction to Image processing”**. This session provided deep insight into various aspects of Image Processing.







## Day 2, 3<sup>rd</sup> April 2021

Day 2 started with session by Prof. Smit ari, Assoc.Professor,NITRKL on Machine Learning,Deep Learning.This session is particularlyaimed in explaining various applications on Signal and Image Processing.

**Big Image also means:** A single large Image:  
(a) Dimension (b) Memory

2 persons / 1 person

Link to 32,768 x 32,768

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9 1/2

9 Time

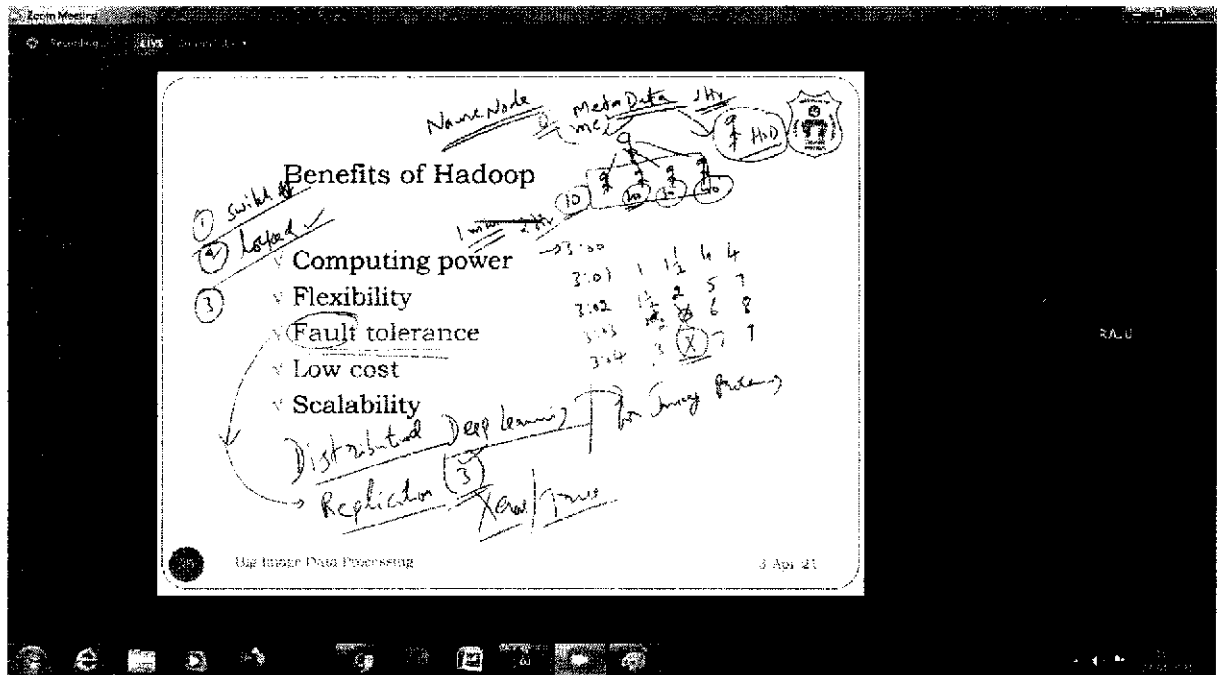
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Big Image Data Processing

3-Apr-21

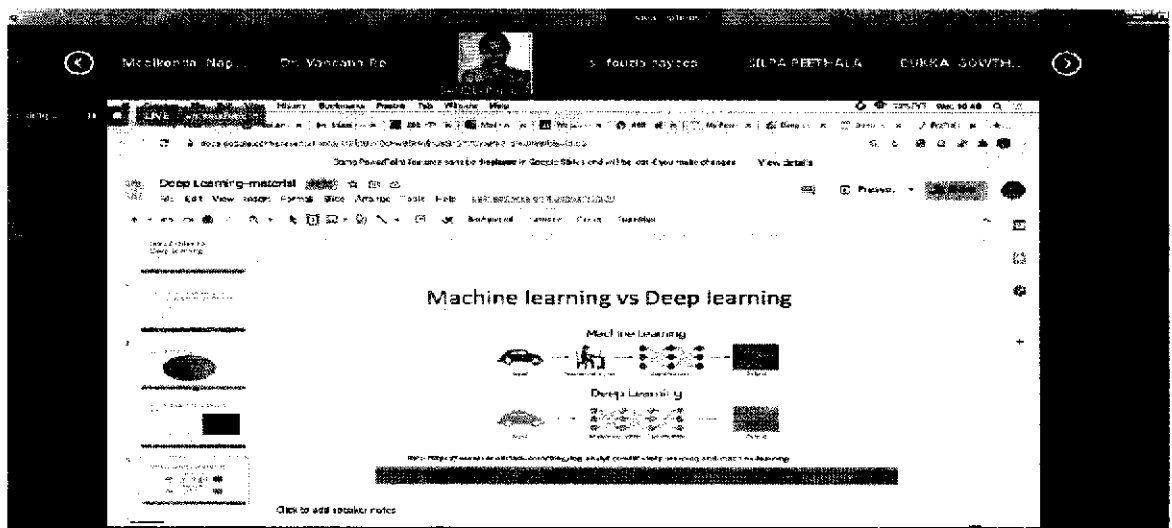
In the afternoon session Dr. U.S.N. Raju, Asst.Professor, NITW explained Big Image data processing using Deep Learning Techniques. Day was concluded after the session by Dr. U.S.N. Raju, Asst.Professor, NITW.



The participants are actively involved in listening the lectures Big Image data processing using Deep Learning Techniques.

## Day 3, 6<sup>th</sup> April 2021

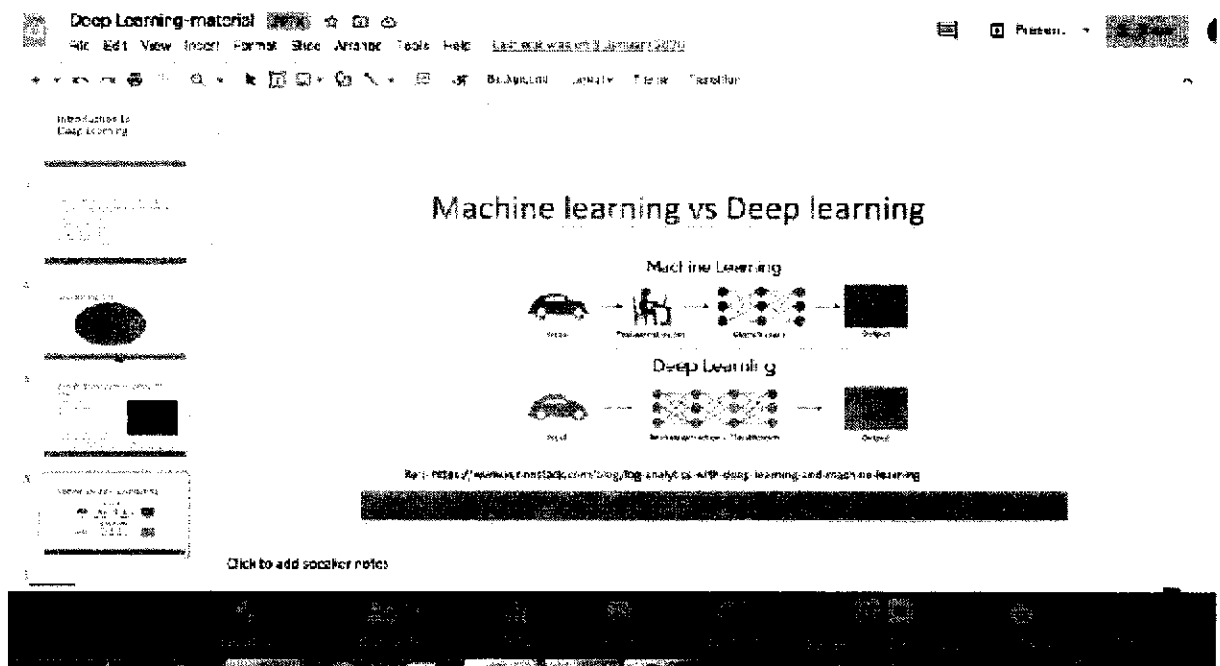
On Day 3 Dr. Ravi Kiran, Asst. Professor, IIITH explained about Machine Learning in Computer vision and Video Processing and application in that field.



In the afternoon session Prof. Smit ari, Assoc. Professor, NITRKL explained Application of Deep Learning Techniques on Image and Video Processing. He gave a brief idea about different applications for researchers in this area.

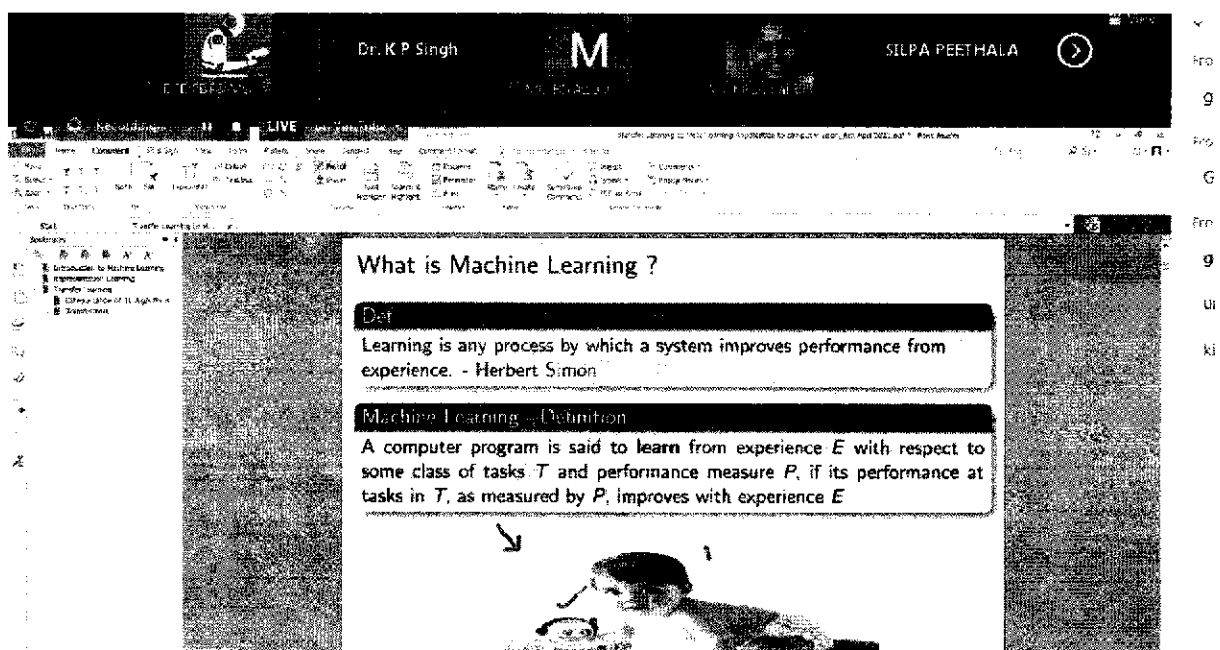






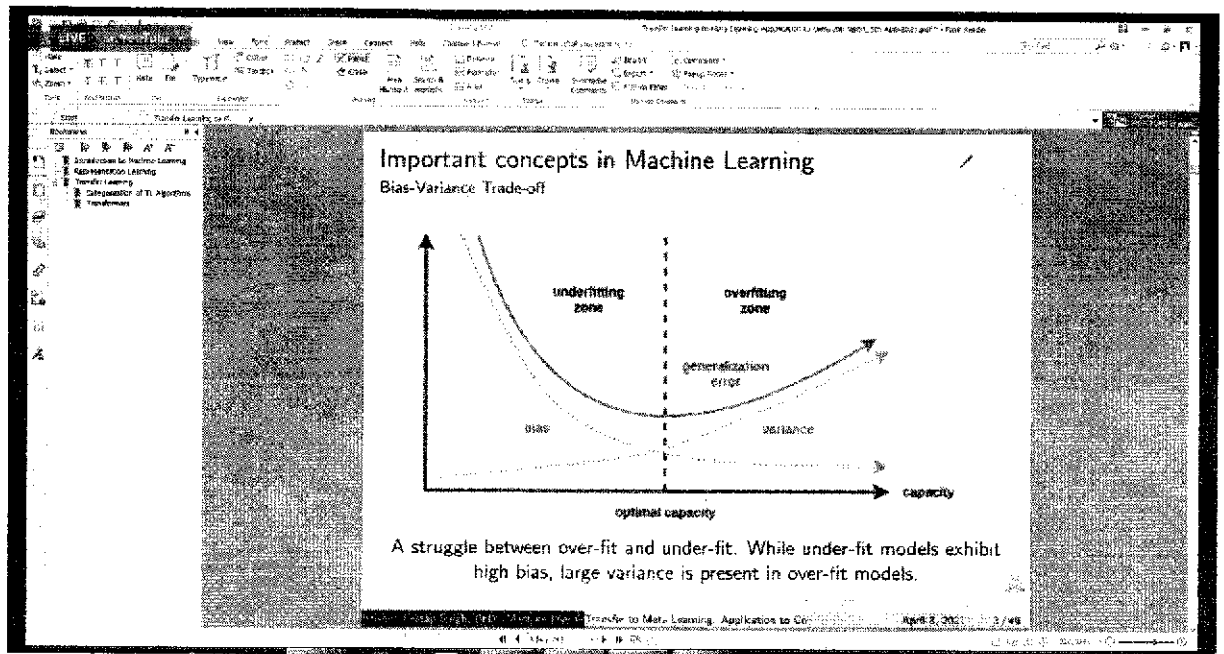
## Day 5, 8<sup>th</sup> April 2021

On Day 5 in the morning session **Dr. K.P. Singh, Asst. Professor, IITA** explained Transfer Learning for Image / Video Applications. He explained about image and video processing techniques and applications using Machine Learning.



Post lunch session was again continued by **Dr. Earnest Paul, Asst. Professor, NITW** on Human Action Recognition in Video using Deep Learning.





## Day 6, 9<sup>th</sup> April 2021

Day 6 started with a session by **Dr. Partha Pratim Roy, Professor, IITR** explained **Some Fundamentals and Hands on with Deep Learning**. It was a refreshing experience for participants as they have actively involved in the Hands on session.

**Neural Networks**

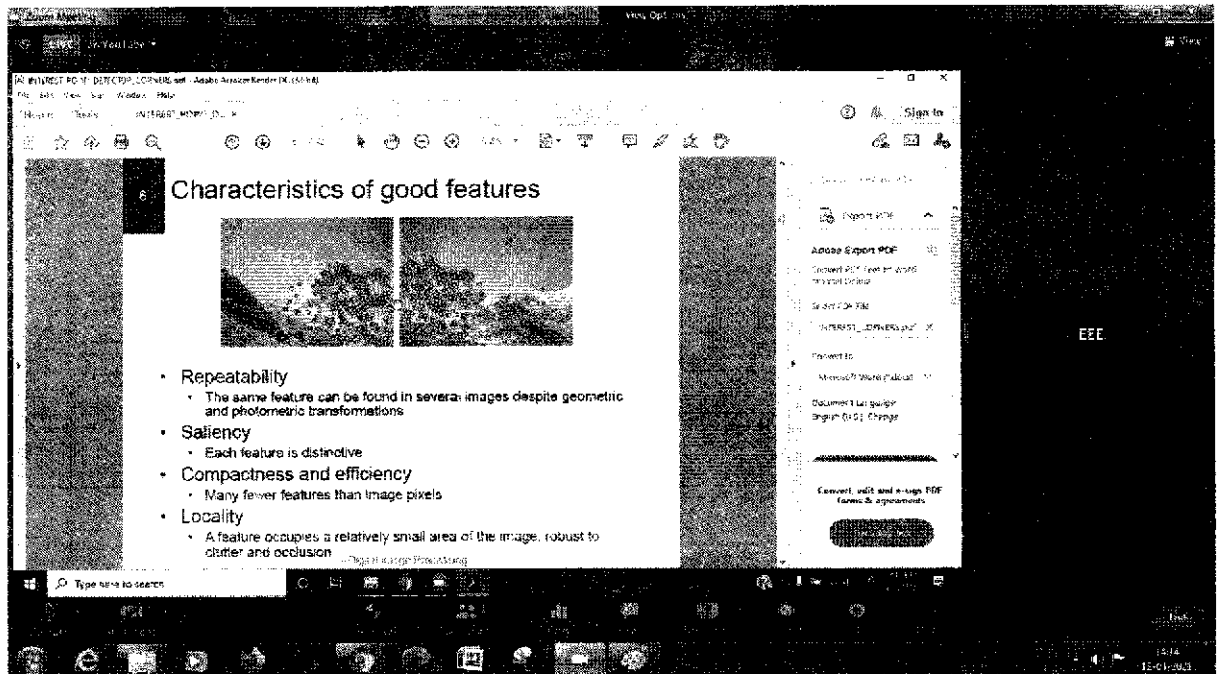
- Artificial neural networks (ANNs) are algorithms developed to mimic the processing in the human brain and are designed to recognize patterns.
- Each neuron in ANN receives a number of inputs.

**Biological Neurons with connectivity pattern**

**Neuron in a artificial neural network with regular pattern**

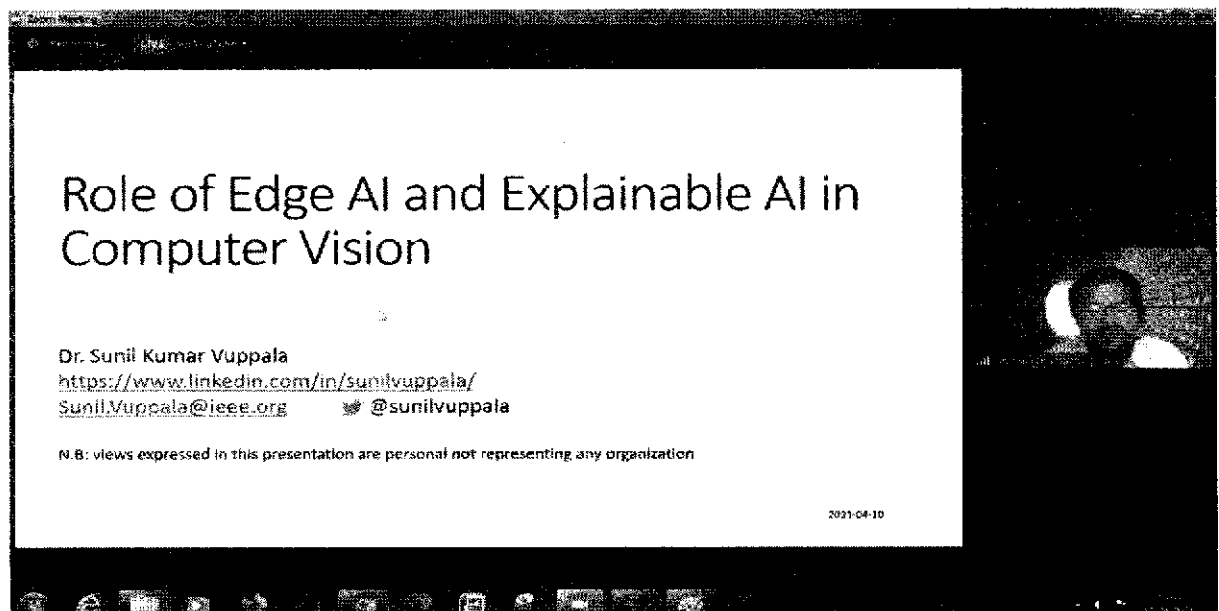
The diagram shows a biological neuron on the left and an artificial neural network on the right. The ANN consists of an input layer, two hidden layers (labeled 'hidden layer 1' and 'hidden layer 2'), and an output layer. All layers are fully connected to each other, as indicated by the label 'Fully Connected Layers'.

The day concluded with a session on **“Bayesian Decision Theory for Computer Vision”** by **Dr. Suresh Sundaram, Associate Professor, IITG**. In this session Dr. Suresh Sundaram explained about ML algorithms used in Computer Vision along with latest research trends.



## Day 7, 10<sup>th</sup> April 2021

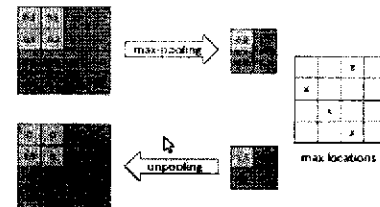
Day 7 started with a session by Dr. Sunil Kumar, Ericson, Bangalore on **“Role of Edge AI and Explainable AI in Computer vision”** and he addressed how AI can be employed in Computer Vision applications. This informative talk continued till the afternoon session.



The day concluded with a session on **“Automated pain severity detection using convolutional neural network”** by Dr. Narendra D.Londhe, Assoc.Professor,NIT,Raipur.

## Deconvolution Layers

- **Unpooling:**
  - Reverse of max pooling layer
  - Switches to store the location of maxima
- **Filtering:**
  - The convnet uses learned filters to convolve the feature maps from the previous layer.
  - To invert this, the **deconvnet** uses **transposed** versions of the same filters, but applied to the rectified maps, i.e. by **flipping each filter vertically and horizontally**.
- **Rectification:**
  - Ensures the feature maps are always positive.
  - To obtain valid feature reconstructions at each layer, we pass the reconstructed signal through a **ReLU non-linearity**.



Day 8, 12<sup>th</sup> April 2021

Day 8 started with a session by Dr. Narendra D.Londhe, Assoc.Professor,NIT,Raipur explained “Automated pain severity detection using convolutional neural network” and conducted hands on session on Machine Learning.

The screenshot shows a Jupyter Notebook with the following code and output:

```

212 img = ImageDataGenerator(
213     rotation=20,
214     zoom=0.1,
215     shear=0.1,
216     width_shift_range=0.2,
217     height_shift_range=0.2,
218     shear_range=0.15,
219     horizontal_flip=True,
220     fill_mode='nearest')
221
222
223 skf = StratifiedKFold(n_splits=5, shuffle=True, random_state=0)
224 EPOCHS=10
225 BS=32
226 acc_list=[]
227 for train_index, test_index in skf.split(data, label):
228     x_train, x_test= data[train_index], data[test_index]
229     y_train, y_test = label[train_index], label[test_index]
230
231     y_train = to_categorical(y_train)
232     y_test = to_categorical(y_test)
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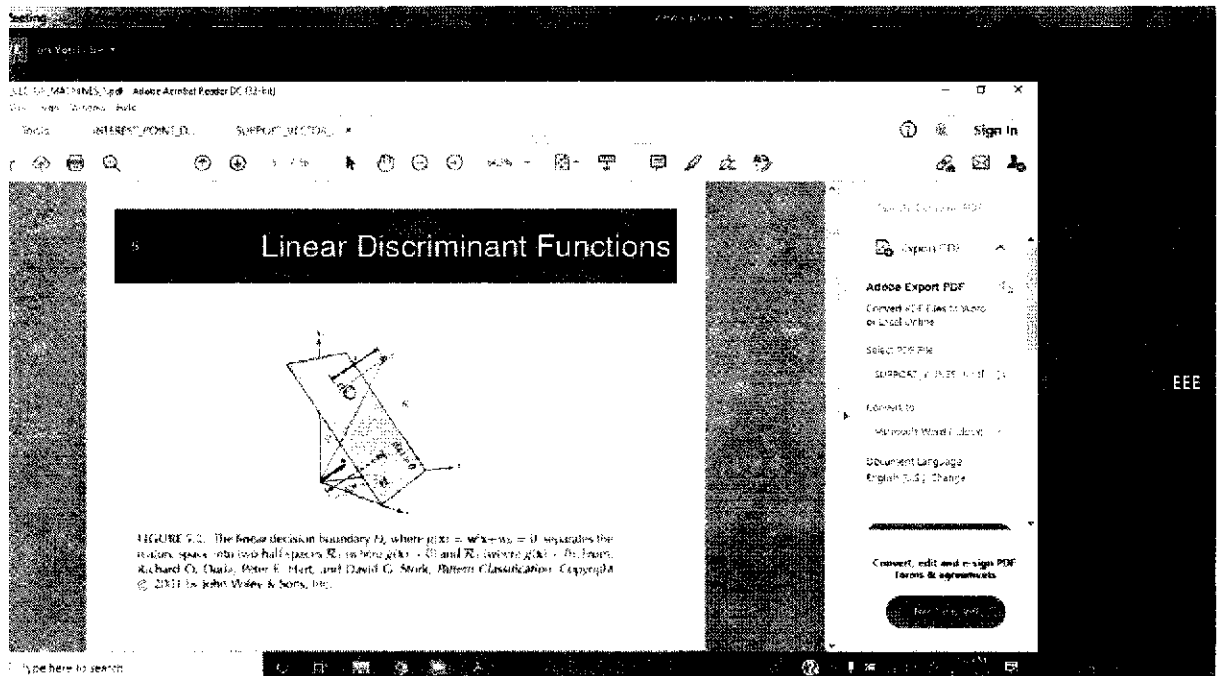
```

The output of the code shows the following metrics:

	precision	recall	f1-score	support
0	0.75	0.81	0.78	160
1	0.59	0.59	0.59	168
2	0.95	0.98	0.96	172
accuracy			0.79	498
macro avg	0.76	0.79	0.75	498
weighted avg	0.77	0.78	0.78	498

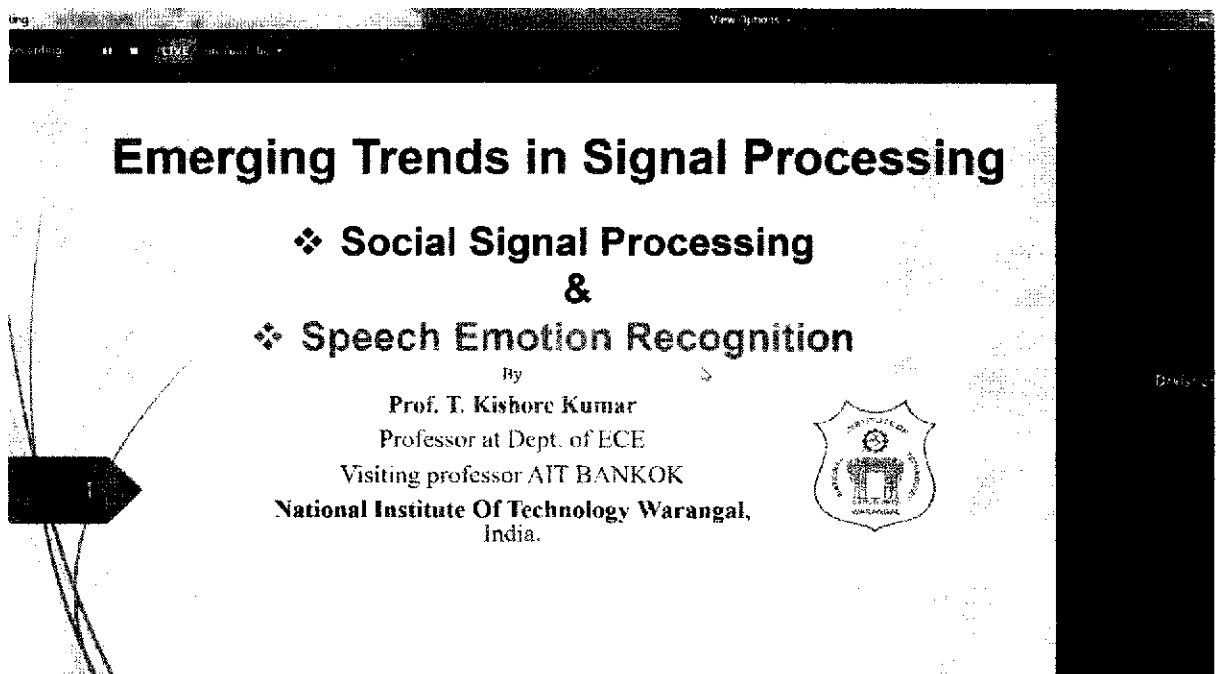
The day concluded with a session on “Support vector machines for object detection” by Dr. Suresh Sundaram,AssociateProfessor,IITG. In this session Dr. Suresh Sundaram explained about object detection using SVM.





## Day 9, 15<sup>th</sup> April 2021

Day 9 started with a session by Dr.T.Kishore Kumar, Professor,NITWon "Emerging trends in signal processing-social signal processing & speech emotion recognition" and motivated all the researchers to proceed in this area.

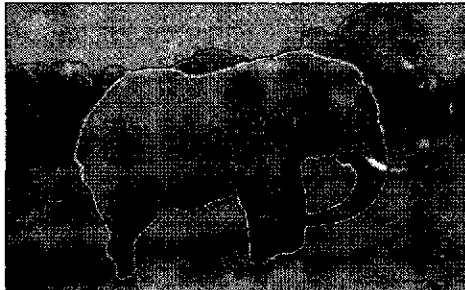


The day concluded with a session on "Deep learning for computer vision applications" by Dr.Shyam Lal, Asst.Professor,NIT, Surathkal. He briefed on Computer Vision applications using Deep Learning algorithms.

LIVE

## Introduction of Segmentation

- ❑ The Image segmentation breaks the image down into meaningful regions.
- ❑ For example, in the picture given below, you can clearly see segments corresponding to the sky, the trees, the elephant and the grass.



Dr. Shyam Lal, NIT...

## Day 10, 16<sup>th</sup> April 2021

Day 10 started with a session by Dr. Shyam Lal, Asst. Professor, NIT, Surathkalon "Hands on deep learning architecture for object segmentation". Participants enjoyed a lot and clarified their doubts by interacting with resource person.

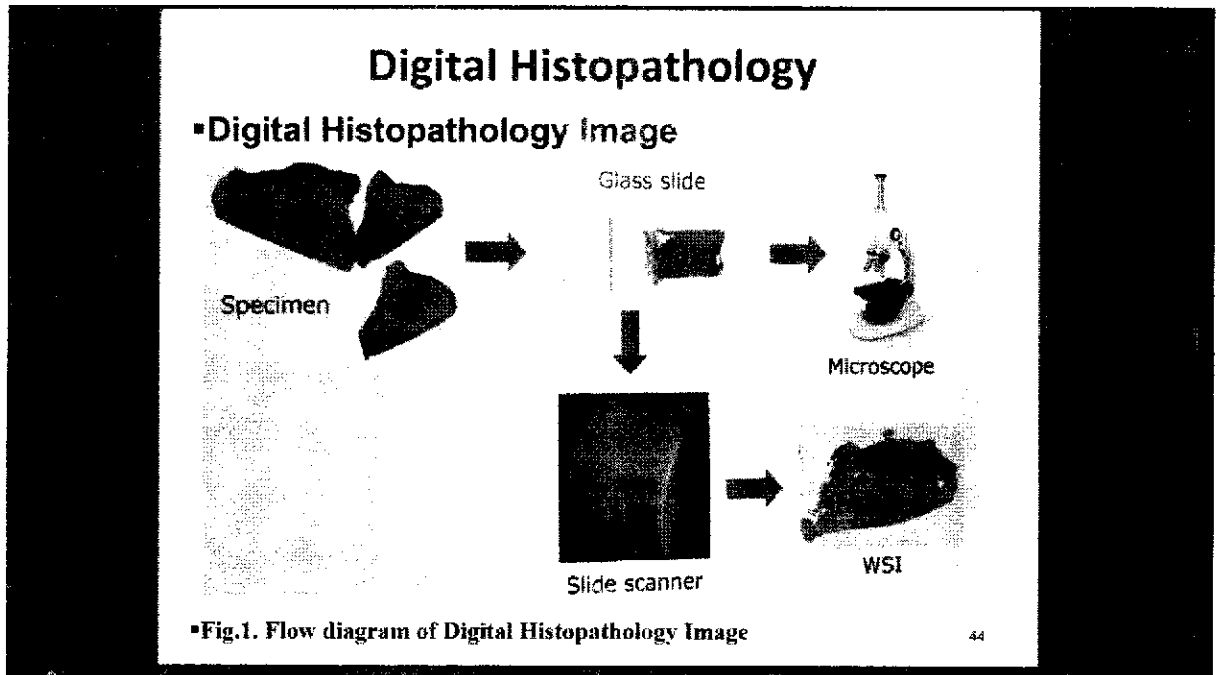
Dr. Shyam Lal, NIT...

## Outline

- ❑ Introduction
- ❑ Importance of Segmentation
- ❑ Applications of Segmentation
- ❑ Types of Segmentation Methods for Medical Images
- ❑ Important Datasets for Segmentation Task
- ❑ Digital Histopathology
- ❑ Deep Learning Architectures for Segmentation of Histopathology images
  - U-Net(2015)
  - Attention U-Net (2019)
- ❑ Future Research directions
- References

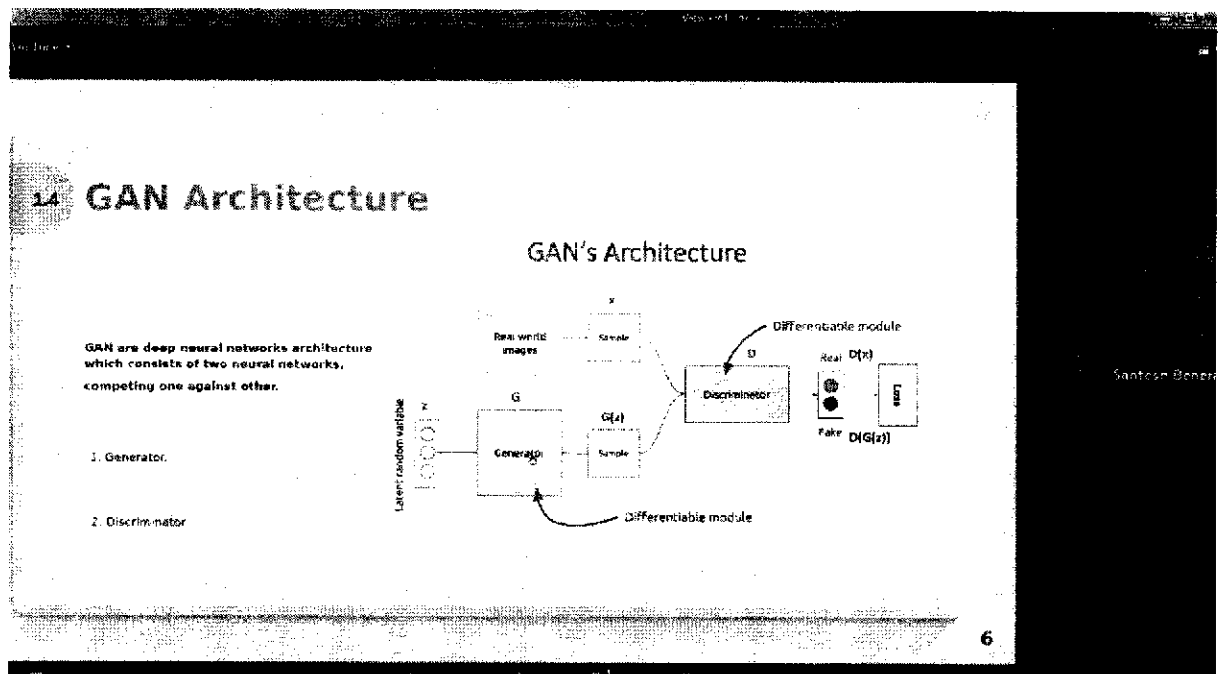
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The day concluded with a session on "Deep learning in image processing" by Dr. Srinivas Reddy, Principal, ANU. He explained how Deep Learning is used in Image Processing applications.

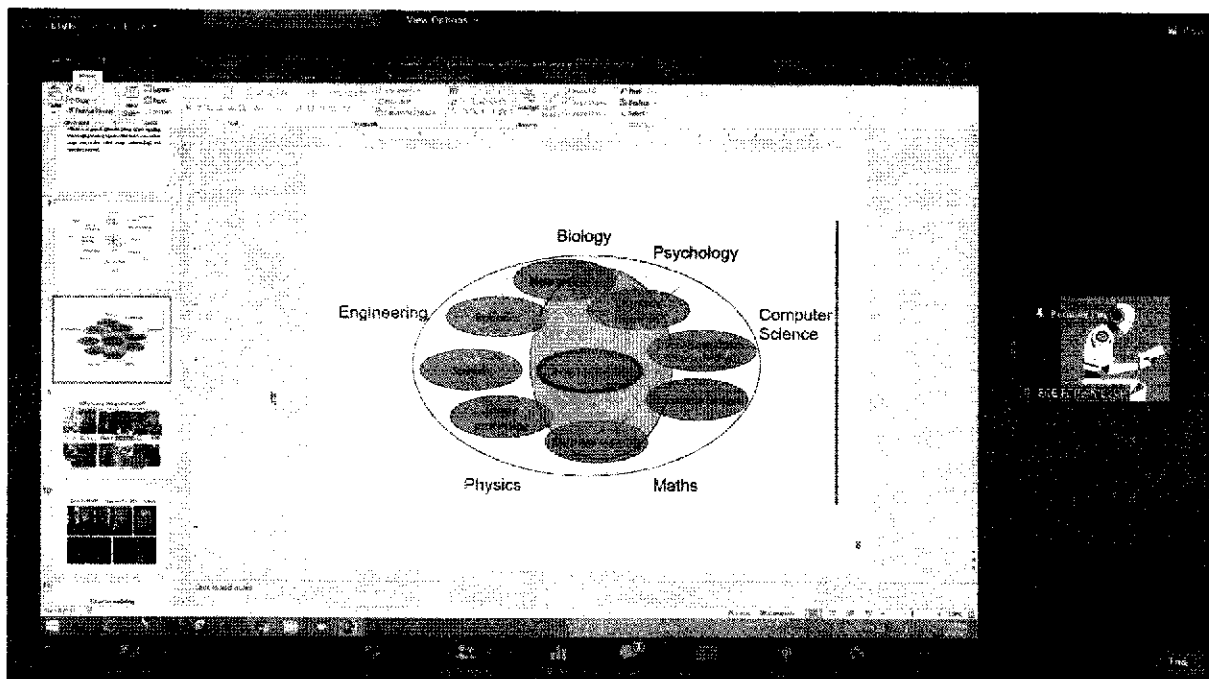


## Day 11, 17<sup>th</sup> April 2021

Day 11 started with a session by Dr. Santhosh Behra, Research Scientist in Huawei India R&D, Bangalore on “ML in Computer Vision & Video Processing”.

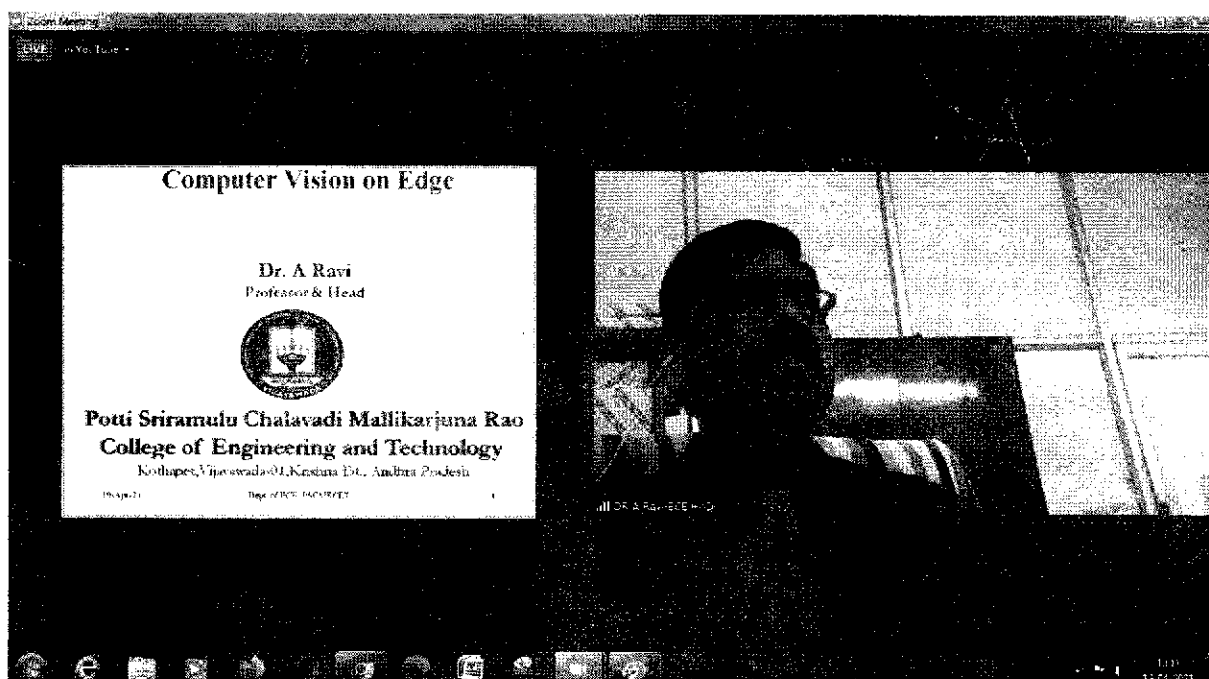


The day concluded with a session on “Deep learning in image processing” by Dr. Srinivas Reddy, Principal, ANU. He explained how Deep Learning is used in Image Processing applications.

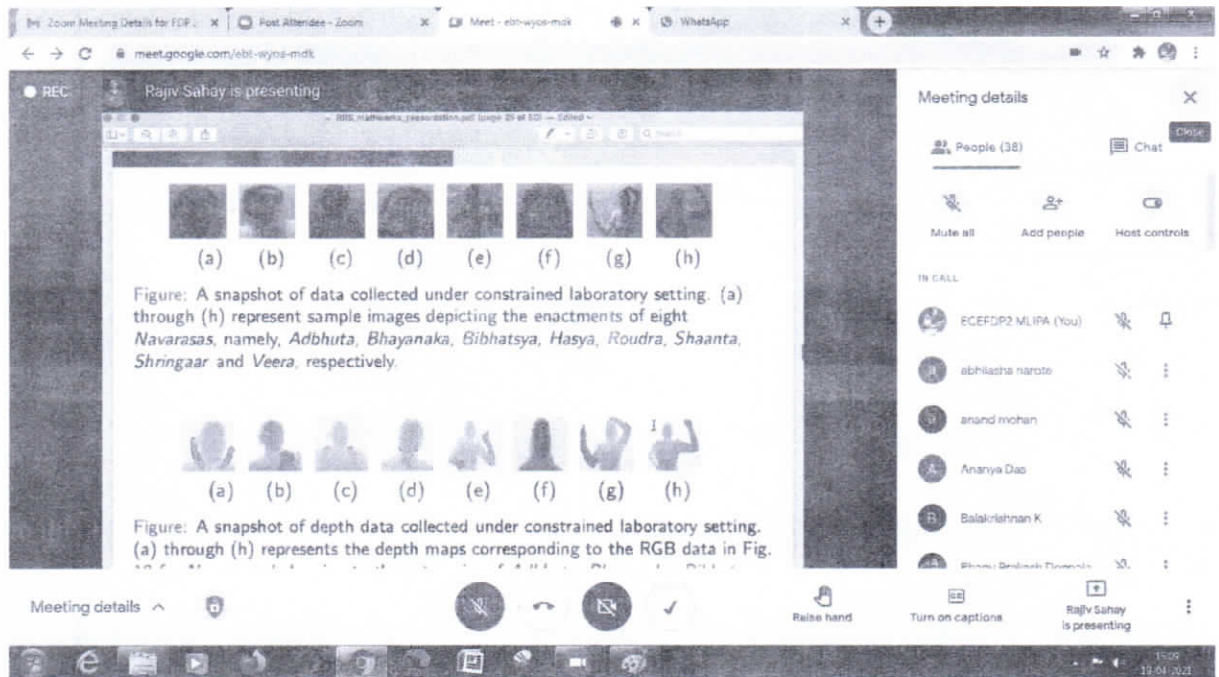


## Day 12, 19<sup>th</sup> April 2021

Day 12 started with a session by **Dr.A.Ravi, Professor & HOD, PSCMRCET** on **“Computer vision on edge”**. He explained about the Computer Vision and how it plays a vital role in future.



The day concluded with a session on **“Nrityadarpan: Computer vision and deep learning meet Indian classical dance”** by **Dr.Rajiv Ranjan Sahay, Asst.Professor, IITK**. He explained how Deep Learning and Computer Vision used in Indian classical dance.



On last day test has been conducted for all the participants based on all topics covered in this FDP.

A total of 24 theory sessions of two hours each were conducted to make this complete course success. Each participant gave their valuable online feedback of this Faculty Development Program.

*A. P. S.*

**HOD-ECE**

Potti Sriramulu Chalavadi Mallikharjuna Rao  
College of Engineering & Technology  
Kothapet, VIJAYAWADA-520 001.

*[Signature]*

**PRINCIPAL**

Potti Sriramulu Chalavadi Mallikharjuna Rao  
College of Engineering & Technology  
Kothapet, VIJAYAWADA-520 001.



### About the Institute

PSCMR COLLEGE OF ENGINEERING & TECHNOLOGY (PSCMR), established in the year 2008, is sponsored by SKPVV – Sri Kanyaka Parameswari Vissamsetty Venkataratnam (SKPVV) Hindu High Schools Committee. The society was formed by a group of philanthropists from business community of Vijayawada, Krishna District, Andhra Pradesh in the year 1906. They contributed their might and collected donations from the like-minded people and started primary school to provide education to the poor students of local area and surrounding villages, where there were no schools at that time. The society was registered with the Register of Krishna District in 27<sup>th</sup> November 1915.

PSCMRCET has been in the forefront imparting high quality technical education. State of the art infrastructure in all branches of engineering, dedicated and qualified staff, highly conducive environment for teaching-learning process are the hallmarks of this professionally managed institution.

The institute is accredited by NAAC and its programmes are accredited by National Board of Accreditation (NBA). The institute is affiliated to Jawaharlal Nehru Technological University, Kakinada (JNTUK).

### About the Department

The department offers UG program in **Electronics and Communication Engineering**. The department has qualified, dedicated, experienced and trained faculty with deep sense of commitment towards the students and institution. Teaching faculty with proficiency in various subjects motivates students to participate in research activities and skill development programs. The department has state of the art laboratories with well-equipped hardware and software. The department is accredited by NBA, now the intake is 180.

### Address for Correspondence

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Professor

Department of Electronics and Communication Engineering  
PSCMR COLLEGE OF ENGINEERING & TECHNOLOGY  
VIJAYAWADA, ANDHRA PRADESH  
Mobile:9440285846, E-mail :eeefdp3mlevp@pscmr.ac.in

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<b>Ms.R.Durga Bhavani,</b>	Asst. Prof., ECE

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### AICTE Sponsored



### Two Week Faculty Development Programme on

### Machine Learning in Computer Vision & Video Processing

01.04.2021 to 19.04.2021



### Organized by

**DEPARTMENT OF ELECTRONICS AND  
COMMUNICATION ENGINEERING  
(NBA Accredited)  
PSCMR COLLEGE OF ENGINEERING &  
TECHNOLOGY**

Vijayawada, Andhra Pradesh  
Website: [www.pscmr.ac.in](http://www.pscmr.ac.in).

### About the Programme

The two-week FDP on machine learning in Computer Vision & Video Processing will focus on the concept and understanding of Video Processing, Computer Vision and Machine Learning algorithms. However, FDP Training will be based on their real-time applications. Overall, this FDP is serving to be a great platform for faculty and researchers in the domain of Computer Vision and Video Processing.

Two-week FDP Machine Learning in Computer Vision & Video Processing training provides a close summary of topics such as: exploitation period of time information, making algorithms exploitation totally different cubic centimetre techniques, Regression, Classification, introduction to Computer Vision and Video processing and applications of Computer Vision and Video processing. This Machine Learning training covers the foremost fashionable and widely used Deep Learning technologies and their applications, further as language process, thus, paving the means for a solid foundation of Machine Learning.

#### **The importance of machine learning, Computer Vision and Video Processing**

Machine/Deep learning is the science of designing and applying algorithms that can learn things from past cases. Computer Vision tries to do what a human brain does with the retinal data that means understanding the scene based on image data. That mainly involves segmentation, recognition and reconstruction (3D) and these works together to give us the scene understanding. Computer Vision employs image Processing and Machine learning as well as some of the other mathematical methods to do the mentioned tasks. Video signal is basically a sequence of time varying images. In a digital video, the picture information is digitized both spatially and temporally and the resultant pixel intensities are quantized.

### Topics to be Covered

- Introduction to Machine Learning
- How does ML works?
- Applications of ML
- Introduction to ML in Video Processing
- Introduction to Computer Vision (Object Detection, Tracking and Recognition)
- Application areas of Computer Vision
- Challenges in Computer Vision
- Video analytics and Computer Vision applications

### Resource Persons

Resource persons are from IITs, NITs, Universities, Industry and R & D organizations

### Eligibility

The program is intended for the faculty of AICTE approved Engineering colleges, Research Scholars and Industry person.

### Important Dates

**Last date for receipt of application : 29-03-2021**  
**List of selected participants will be intimated through mail : 30-03-2021**

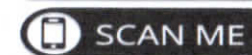
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Registration is FREE

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**AICTE SPONSORED**  
**FDP ON MACHINE LEARNING IN COMPUTER VISION & VIDEO PROCESSING**

## Certificate OF PARTICIPATION

This certificate is issued to

Dr./Mr./Mrs./Ms. **MS. R DURGA BHAVANI**

of **PSCMR COLLEGE OF ENGINEERING AND TECHNOLOGY**

for active participation in the **AICTE Sponsored** Two Week  
**Faculty Development Programme on "Machine Learning in Computer Vision & Video Processing"** Organized by Department of Electronics and Communication Engineering,  
PSCMRCET during 01<sup>st</sup> - 19<sup>th</sup> April, 2021.

**Dr. M. Ranga Rao**  
Coordinator, Prof. ECE

**Dr. A. Ravi**  
HOD ECE

**Dr. K. Sri Rama Krishna**  
PRINCIPAL - PSCMRCET



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of PSCMR COLLEGE OF ENGINEERING AND TECHNOLOGY

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## *Certificate* OF PARTICIPATION

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of PSCMR COLLEGE OF ENGINEERING AND TECHNOLOGY

for active participation in the *AICTE Sponsored* Two Week

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Dr. M. Ranga Rao  
Coordinator, Prof. ECE

Dr. A. Ravi  
HOD ECE

Dr. K. Sri Rama Krishna  
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COLLEGE CODE : PSCV [ EAMCET, ECET, ICET, POLYCET ]



Date: 12/03/2021

**CIRCULAR**

Department of Electronics and communication engineering has planned to conduct a **Two Week Faculty Development Programme on “Machine Learning in Image Processing Applications”** from 15.03.2021 to 27.03.2021. Faculties are asked to attend the program without fail.

Venue: Second Floor-Mini Seminar Hall

Time: 10:00AM to 12:00PM and 2:00PM to 4:00PM

  
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## **Two-week Faculty Development Program on “Machine Learning in Image Processing Applications” in association with AICTE.**

**15<sup>th</sup> March to 27<sup>th</sup> March 2021**

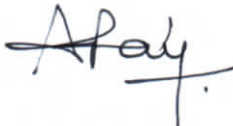
**FDP Coordinator: Dr.M.Ranga Rao**

Machine/Deep learning is the science of designing and applying algorithms that can learn things from past cases. Computer Vision tries to do what a human brain does with the retinal data that means understanding the scene based on image data. Video signal is basically a sequence of time varying images. Computer Vision and Video processing are used in innovative and exciting applications in fields of speech, audio, Video and in medical applications.

### **Objective of this FDP:**

- It is necessary to make faculty of Engineering colleges, Universities, and people from industry aware of opportunities and challenges in the field.
- To create awareness about Machine Learning and how it can be applicable in the field of Computer Vision and Video Processing techniques and its importance over traditional techniques.
- To create awareness about the applications of Machine Learning, Computer Vision and Video Processing.
- To promote Research in the area of Computer Vision, Video Processing by applying various ML techniques.
- To enhance faculty confidence level while teaching concepts of Computer Vision, Video Processing by applying various ML techniques.
- To bridge the gap between industry and academia.
- To serve as an induction program for Ph.D researchers working in the area of Computer Vision, Video Processing, Machine Learning.
- To provide a forum for academicians and researchers to discuss emerging trends in aforementioned areas.

Inaugural function started at 10.00 AM.FDP coordinator Dr.M.Ranga Rao welcomed all the participants and gave a brief idea about program and basic theme on which all the sessions would be carried out in the duration of program. Hon'ble principal Dr.Sri RamaKrishna and convener Dr. A.Ravi greeted all the participants and gave their valuable thoughts on importance of such programs. They congratulated Dr.M.Ranga Rao for arranging Online FDP and wished all the participants a good time ahead.



**HOD-ECE**

Potti Sriramulu Chalavadi Mallikharjuna Rao  
College of Engineering & Technology  
Kothapet, VIJAYAWADA-520 001.



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COLLEGE CODE : PSCV [EAMCET, ECET, ICET, POLYCET]

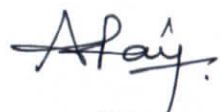
NAME OF THE PARTICIPANT	DESIGNATION	DEPARTMENT	COLLEGE NAME
BAPATHU ANJI REDDY	ASSISTANT PROFESSOR	ECE	PNC & VIJAI institute of Engineering & Technology
ARUL RAJAM I	ASSISTANT PROFESSOR	IT	P.M.THEVAR COLLEGE USILAMPATTI
ASHISH RAHEJA	NETWORK PLANNING OFFICER	Ministry of defence	INDIAN INSTITUTE OF TECHNOLOGY NEW DELHI
ASHOK KUMAR P S	PROFESSOR	CSE	DON BOSCO INSTITUTE OF TECHNOLOGY
Kalluri Bhaskar Reddy	ASSISTANT PROFESSOR	ECE	Sri indu Institute of engineering and technology
Kalluri Bhaskar reddy	ASSISTANT PROFESSOR	ECE	Sri indu Institute of engineering and technology
T.Bhavani	ASSISTANT PROFESSOR	ECE	Sri indu inistitute of Engineering & Technology
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CHINTAN S PATEL	ASSISTANT PROFESSOR	ECE	Birla Viswakarma Mahavidyalaya engineering college
Dimple Juneja	LECTURER	Commerce	Udaipur
POLELLOLA DINAKAR	ASSISTANT PROFESSOR	CSE	Sri Indu Institute of engineering and technology
Dr.D.KALAIVANI	ASSOCIATE PROFESSOR	Computer Technology	Dr.SNS Rajalakshmi College of Arts and Science
Challa Narasimham	PROFESSOR	CSE	Dadi Institute of Engineering and Technology
Duvvapu Mahesh Babu	ASSISTANT PROFESSOR	CSE	Sri Indu Engineering College
Ganesh Muluka	ASSISTANT PROFESSOR	ECE	Sri Indu Institute of Engineering and Technology (SIET)
GANJERUPALLI CHANDRA SEKH	ASSISTANT PROFESSOR	ECE	Sri Indu Institute of Engineering and Technology
G CHENNA KESHAHA REDDY	ASSOCIATE PROFESSOR	ECE	TEEGALA KRISHNA REDDY ENGINEERING COLLEGE
Girija S	ASSISTANT PROFESSOR	ECE	Dr.Ambedkar Institute of Technology
G NARASIMHA	ASSISTANT PROFESSOR	ECE	SRI INDU INSTITUTE OF ENGINEERING & TECHNOLOGY
Gurijala anitha	ASSISTANT PROFESSOR	ECE	sri indu institute of engineering technology
Myadari srilatha	ASSISTANT PROFESSOR	ECE	Sri indu institute of engineering and technology
G HARISH BABU	ASSISTANT PROFESSOR	ECE	CVR COLLEGE OF ENGG
HARISH V	ASSISTANT PROFESSOR	ECE	Nagarjuna College of Engineering and Technology
THALLA HEMALATHA	ASSISTANT PROFESSOR	ECE	AGI
Dr. I. SATYANARAYANA	PROFESSOR	MECH	SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLO
Dr.A.Seshagiri Rao	ASSOCIATE PROFESSOR	IT	PACE INSTITUTE OF TECHNOLOGY AND SCIENCES
JYOTHIRMAI	ASSISTANT PROFESSOR	ECE	SRI INDU INSTITUTE OF ENGINEERING & TECHNOLOGY

JYOTHI	ASSISTANT PROFESSOR	ECE	Nagarjuna college of engineering and technology
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KESHAVA GOWTHAM NS	ASSISTANT PROFESSOR	CSE	JYOTHY INSTITUTE OF TECHNOLOGY
Hemalatha K N	ASSISTANT PROFESSOR	ECE	Dr.Ambedkar Institute of Technology
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KONGARI SRIKANTH	ASSISTANT PROFESSOR	ECE	SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY
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SANABOINA LEELA KRISHNA	ASSISTANT PROFESSOR	CSE	SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY
T MALATHI	ASSISTANT PROFESSOR	BUSINESS MANAGEMENT	ST. JOSEPH'S DEGREE & PG COLLEGE
koduri mallaiiah	ASSISTANT PROFESSOR	ECE	Sri indu institute of engineering and technology
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KARANAM MANOHARA RAO	ASSISTANT PROFESSOR	IT	PACE INSTITUTE OF TECHNOLOGY AND SCIENCES
MANDADI SRUTHI	ASSISTANT PROFESSOR	CSE	SRI INDU INSTITUTE OF ENGINEERING & TECHNOLOGY
MANDADI SRUTHI	ASSISTANT PROFESSOR	CSE	SRI INDU INSTITUTE OF ENGINEERING TECHNOLOGY
Dr. Nagesh K N	PROFESSOR	ECE	Nagarjuna College of Engineering and Technology
NANDA KISHORE C V	ASSISTANT PROFESSOR	ECE	Nagarjuna college of engineering and technology
Dr. Garlapati Narayana	PROFESSOR	CSE	Sri Indu Institute of Engineering and Technology
THEDDU NARESH	ASSISTANT PROFESSOR	ECE	PSCMR COLLEGE OF ENGINEERING & TECHNOLOGY
NEELA SUSHMA	ASSISTANT PROFESSOR	EEE	SRI INDU INSTITUTE OF ENGINEERING & TECHNOLOGY
T NEETHA	ASSOCIATE PROFESSOR	CSE	BRILLIANT GRAMMAR SCHOOL EDUCATIONAL SOCIETY
Prasuna Kantamaneni	ASSISTANT PROFESSOR	ECE	Vijaya Institute of Technology for Women
Padma	ASSISTANT PROFESSOR	ECE	Sri Indu Institute of Engineering and Technology
adla padma	ASSISTANT PROFESSOR	CSE	Sri Indu Institute of Engineering and Technology
PAPA RAO CHALLAGUNDLA	ASSOCIATE PROFESSOR	ECE	GUNTUR ENGINEERING COLLEGE
D.BHANU PRAKASH	ASSOCIATE PROFESSOR	ECE	CVR COLLEGE OF ENGINEERING
Poornima Raikar	ASSISTANT PROFESSOR	CSE	KLS VEDIT HALIYAL
Ramesh Poliseti	ASSISTANT PROFESSOR	CSE	Sri indu Institutions of Engineering and Technology
R .PRAKASH KUMAR	ASSISTANT PROFESSOR	ECE	CVR COLLEGE OF ENGINEERING
Pranesh Kulkarni	ASSISTANT PROFESSOR	CSE	KLS VEDIT HALIYAL
M LAXMI PRASANNA RANI	ASSISTANT PROFESSOR	ECE	MVGR College of Engineering(A), VIZIANAGARAM



PRAVALLIKA PASUNOORI	ASSISTANT PROFESSOR	EEE	SRI INDU INSTITUTE OF ENGINEERING & TECHNOLOGY
Praveen Hugar	ASSISTANT PROFESSOR	IT	J.B Institute of Engineering and Technology
Sriramakavacham Prudhvi Raj	LECTURER	CSE	Sri Indu Institute of Engineering and Technology
P SriRamulu	ASSISTANT PROFESSOR	CSE	Sri indu institute of engineering and technology
Pujitha j	ASSISTANT PROFESSOR	CSE	Siiet
Y RAJANI	ASSISTANT PROFESSOR	ECE	SRI INDU INSTITUTE OF ENGINEERING & TECHNOLOGY
Kasetty Ram babu	ASSISTANT PROFESSOR	ECE	Nagarjuna College of Engineering and Technology
Kasetty Ram babu	ASSISTANT PROFESSOR	ECE	Nagarjuna College of Engineering and Technology
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G.SANTHOSH KUMAR	ASSISTANT PROFESSOR	ECE	CVR COLLEGE OF ENGINEERING
DVVS B REDDY SARAGADA	Sr. Assistant Professor	MECH	ADITYA ENGINEERING COLLEGE(A)
Annaram Shiva Shankar	ASSISTANT PROFESSOR	CSE	Sri indu institution of engineering and technology
MD.SHAMSHAD BEGUM	ASSISTANT PROFESSOR	ECE	NIMRA COLLEGE OF ENGINEERING AND TECHNOLOGY
SILPA PEETHALA	ASSISTANT PROFESSOR	ECE	Vijaya institutions of technology for women
Shivaprasad Satla	ASSISTANT PROFESSOR	CSE	S R University
SHIVACHALESH GUDDODAGI	ASSISTANT PROFESSOR	CSE	KLS Vishwanathrao Deshpande Institute of Technology, Hali
Shruti. K	Python Developer	M. Sc CS	Gulbarga university kalburgi
sri silpa padmanabhuni	ASSOCIATE PROFESSOR	CSE	PSCMR COLLEGE OF ENGINEERING & TECHNOLOGY
Dr.S.Sivasaravanan	ASSOCIATE PROFESSOR	Mechatronics	Sathyabama Institute of Science and Technology
Dr.S.Sivasaravanan	ASSOCIATE PROFESSOR	Mechatronics	Sathyabama Institute of Science and Technology
Dr.S L PRATHAPA REDDY	ASSOCIATE PROFESSOR	ECE	KSRM COLLEGE OF ENGINEERING
M. Swarnalatha	ASSISTANT PROFESSOR	CSE	Sri Indu Institute of Engineering & Technology
J.Soulatha	ASSISTANT PROFESSOR	CSE	SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY
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Sowjanya Vuddanti	ASSOCIATE PROFESSOR	CSE	PSCMR COLLEGE OF ENGINEERING & TECHNOLOGY
G S SRAVANTHI	ASSISTANT PROFESSOR	CSE	SRI INDU INSTITUTE OF ENGINEERING & TECHNOLOGY
SREENIVASULU K N	ASSISTANT PROFESSOR	ECE	Nagarjuna College of Engineering and technology
S.ANITHA	ASSISTANT PROFESSOR	CSE	SRI INDU INSTITUTE OF ENGG AND TECHNOLOGY

S.ANITHA	ASSISTANT PROFESSOR	CSE	SRI INDU INSTITUTE OF ENGG AND TECHNOLOGY
Sudharani Chidurala	ASSISTANT PROFESSOR	ECE	SR University
Sudhakar Kattupalli	ASSOCIATE PROFESSOR	CSE	PSCMR COLLEGE OF ENGINEERING & TECHNOLOGY
NARESH SURABU	ASSISTANT PROFESSOR	ECE	Sri Indu Institute of Engineering & Technology
naresh	ASSISTANT PROFESSOR	EEE	PSCMR COLLEGE OF ENGINEERING & TECHNOLOGY
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USIKELA NARESH	ASSISTANT PROFESSOR	CSE	SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY
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Kommani Vijaya Prasad	PROFESSOR	ECE	Sri Chaitanya DJR College of Engineering
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Dr.Suresh Subramanian	PROFESSOR	ECE	Sri Indu Institute of Engineering and Technology
YADA SUNITHA	ASSISTANT PROFESSOR	CSE	SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY
Yogesh Tiwari	ASSISTANT PROFESSOR	ECE	Chandubhai S Patel Institute of Technology
Prof. Yasmeen Shaikh	ASSISTANT PROFESSOR	CSE	KLS Vishwanathrao Deshpande Institute of Technology, Hali



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Kothapet, VIJAYAWADA-520 001.



### About the Institute

COLLEGE OF ENGINEERING & TECHNOLOGY (PSCMR), established in the year 2008, is sponsored by SKPVV - Sri Kanyaka Parameswari Venkataratnam (SKPVV) Hindu High School Committee. The society was formed by a group of philanthropists from business community of Vijayawada, Krishna District, Andhra Pradesh in the year 1906. They contributed their might and collected donations from the like minded people and started primary school to provide education to the poor students of local area and surrounding villages, where there were no schools at that time. The society was registered with the Register of Krishna District in 27<sup>th</sup> November 1915.

PSCMRCET has been in the forefront imparting high quality technical education. State of the art infrastructure in all branches of engineering, dedicated and qualified staff, highly conducive environment for teaching-learning process are the hallmarks of this professionally managed institution.

The institute is accredited by NAAC and its programmes are accredited by National Board of Accreditation (NBA). The institute is affiliated to Jawaharlal Nehru Technological University, Kakinada (JNTUK).

### About the Department

The department offers UG program in **Electronics and Communication Engineering**. The department has qualified, dedicated, experienced and trained faculty with deep sense of commitment towards the students and institution. Teaching faculty with proficiency in various subjects motivates students to participate in research activities and skill development programs. The department has state of the art laboratories with well-equipped software. The department is accredited by NBA, now the intake is 180.

### Address for Correspondence

**Dr. M. Ranga Rao.,**  
Professor, Dept. of ECE  
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**PSCMR COLLEGE OF ENGINEERING & TECHNOLOGY**  
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### AICTE Sponsored



### Two Week Faculty Development Programme on

### Machine Learning in Image Processing Applications

**15.03.2021 to 27.03.2021**



### Organized by

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**  
(NBA Accredited)  
**PSCMR COLLEGE OF ENGINEERING & TECHNOLOGY**

Vijayawada, Andhra Pradesh  
Website: www.pscmr.ac.in.

### About the Programme

The two-week FDP on machine learning aims to introduce the fundamentals of machine learning techniques. However, FDP Training will be based on their real-time applications. Overall, this FDP ML is serving to be a great platform for faculty and researchers.

Two-week FDP Machine Learning training provides a close summary of Machine Learning topics such as: exploitation period of time information, making algorithms exploitation totally different cubic centimeter techniques, Regression, Classification, and statistic Modelling. This Machine Learning training covers the foremost fashionable and widely used Deep Learning technologies and their applications, further as language process, thus, paving the means for a solid foundation of Machine Learning.

#### The importance of machine learning

The nearly limitless quantity of available data, affordable data storage, and the growth of less expensive and more powerful processing has propelled the growth of machine learning. Now many industries are developing more robust machine learning models capable of analyzing bigger and more complex data while delivering faster, more accurate results on vast scales. Machine learning tools enable organizations to more quickly identify profitable opportunities and potential risks.

The practical applications of machine learning drive business results which can dramatically affect a company's bottom line. New techniques in the field are evolving rapidly and expanded the application of machine learning to nearly limitless possibilities. Industries that depend on vast quantities of data—and need a system to analyze it efficiently and accurately, have embraced machine learning as the best way to build models, strategize, and plan.

### Topics to be Covered

- Introduction to Image Processing
- Machine Learning for Region Classification in Images
- Medical Image Processing
- Biological Image Processing
- Image Guided Therapy
- GIS Remote Sensing
- Interpretation of Aerial Photography
- Bio systems engineering
- Agricultural Applications
- Autonomous Vehicles
- Target Recognition in Defense Applications
- Document, Signature and Fingerprint Verification
- Industrial Inspection and Human Computer Interface

### Resource Persons

Resource persons are from IITs, NITs, Universities, Industry and R & D organizations

### Eligibility

The program is intended for the faculty of AICTE approved Engineering colleges, Research Scholars and Industry person.

### Important Dates

Last date for receipt of application : 12-03-2021

List of selected participants will be

intimated through mail : 13-03-2021

### Registration

Registration is FREE

Click to download Registration Form

<https://tinyurl.com/ecefdp2mlipa>

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# POTTI SRIRAMULU CHALAVADI MALLIKARJUNA RAO COLLEGE OF ENGINEERING & TECHNOLOGY

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# 7-3-6/1, RAGHAVA REDDY STREET, ONE TOWN, VIJAYAWADA - 520001



**AICTE SPONSORED**  
**FDP ON MACHINE LEARNING IN IMAGE PROCESSING APPLICATIONS**

## *Certificate* **OF PARTICIPATION**

This certificate is issued to

Dr./Mr./Mrs./Ms. **MR. V L SATYANARAYANA**

of **PSCMR COLLEGE OF ENGINEERING AND TECHNOLOGY**

for active participation in the **AICTE Sponsored** Two Week

**Faculty Development Programme on "Machine Learning in Image Processing Applications"**

Organized by Department of Electronics and Communication Engineering,

PSCMRCET during 15<sup>th</sup>-27<sup>th</sup> March, 2021.

**Dr. M. Ranga Rao**  
Coordinator, Prof. ECE

**Dr. A. Ravi**  
HOD ECE

**Dr. K. Sri Rama Krishna**  
PRINCIPAL - PSCMRCET



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of **PSCMR COLLEGE OF ENGINEERING AND TECHNOLOGY**

for active participation in the **AICTE Sponsored** Two Week  
*Faculty Development Programme on "Machine Learning in Image Processing Applications"*  
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Coordinator, Prof. ECE

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HOD ECE

**Dr. K. Sri Rama Krishna**  
PRINCIPAL - PSCMRCET





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CONTACT : +91 -866 - 2423442 / E-MAIL : principal@pscmr.ac.in / info@pscmr.ac.in

COLLEGE CODE : **PSCV** [ EAMCET, ECET, ICET, POLYCET ]



Date: 10/02/2021

**CIRCULAR**

Department of Electronics and communication engineering has planned to conduct **Two Week Faculty Development Programme on "Machine Learning & its Applications"** from 12-02-2021 to 25-02-2021. Faculties are asked to attend the program without fail.

Venue: Second Floor-Mini Seminar Hall

Time: 10:00AM to 12:00PM and 2:00PM to 4:00PM

**HOD-ECE**

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College of Engineering & Technology  
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### About the Institute

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### Address for Correspondence

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Professor

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HOD, ECE

#### Coordinator

**Dr. M. Ranga Rao**  
Prof., ECE

#### Co-Coordinator(s)

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<b>Mr. V.L. Satyanarayana,</b>	Asst. Prof., ECE

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<b>Mr.K.Ragavendra Rao,</b>	Asst. Prof., ECE
<b>Mr.M.Naveen Kumar,</b>	Asst. Prof., ECE
<b>Ms.B.Sushma,</b>	Asst. Prof., ECE
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### AICTE Sponsored



### Two Week Faculty Development Programme on

### Machine Learning & its Applications

**12.02.2021 to 25.02.2021**



#### Organized by

**DEPARTMENT OF ELECTRONICS AND  
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PSCMR COLLEGE OF ENGINEERING &  
TECHNOLOGY**

Vijayawada, Andhra Pradesh  
Website: [www.pscmr.ac.in](http://www.pscmr.ac.in)

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## Topics to be Covered

- Introduction to Machine Learning
- How does ML works?
- Types of ML
- Applications of ML
- ML in Image Processing
- ML in Speech Processing
- ML in SG Lan
- ML in Predictive Analysis
- ML in Medical Application
- ML in Robotics
- ML in Industry Automation
- ML in Video Processing
- ML in Big Data

## Resource Persons

Resource persons are from IITs, NITs, Universities, Industry and R & D organizations

### Eligibility

The program is intended for the faculty of AICTE approved Engineering colleges, Research Scholars and Industry person.

### Important Dates

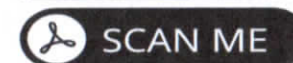
Last date for receipt of application : 05-02-2021

List of selected participants will be intimated through mail : 07-02-2021

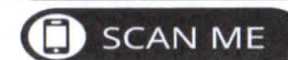
### Registration

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CONTACT : +91-866-2423442 / E-MAIL : principal@psscml.ac.in / info@psscml.ac.in

COLLEGE CODE : PSCV [EAMCET, ECET, ICET, POLYCEI]



## **AICTE Sponsored Two Week Faculty Development Programme on Machine Learning & its Applications**

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING ,(NBA Accredited),

12.02.2021 to 25.02.2021

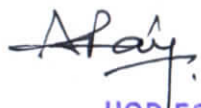
FDP NO	NAME OF THE PARTICIPANT	DESIGNATION	DEPARTMENT	COLLEGE / ORGANIZATION NAME
FDPMLA001	adla padma	ASSISTANT PROFESSOR	CSE	Sri Indu Institute of Engineering and Technology
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FDPMLA003	ARUL RAJAM I	ASSISTANT PROFESSOR	IT	P.M.THEVAR COLLEGE USILAMPATTI
FDPMLA004	ASHISH RAHEJA	NETWORK PLANNING OFFICER	Ministry of defence	INDIAN INSTITUTE OF TECHNOLOGY NEW DELHI
FDPMLA005	ASHOK KUMAR P S	PROFESSOR	CSE	DGN BOSCO INSTITUTE OF TECHNOLOGY
FDPMLA006	BAPATHU ANJI REDDY	ASSISTANT PROFESSOR	ECE	PNC & VIJAI institute of Engineering & Technology
FDPMLA007	BHUSHAN B. THAKARE	ASSISTANT PROFESSOR	CSE	PADM.DR.V.B.KOLTE COLLEGE OF ENGINEERING MALKAPUR
FDPMLA008	Challa Narasimham	PROFESSOR	CSE	Dadi Institute of Engineering and Technology
FDPMLA009	Chanagoni Sai Vijaya	ASSISTANT PROFESSOR	CSE	Sri INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY
FDPMLA010	CHILUKA DIVYA SUSMITHA	ASSISTANT PROFESSOR	ECE	GUNTUR ENGINEERING COLLEGE
FDPMLA011	CHINTAN S PATEL	ASSISTANT PROFESSOR	ECE	Birla Viswakarma Mahavidyalaya engineering college
FDPMLA012	D.BHANU PRAKASH	ASSOCIATE PROFESSOR	ECE	CVR COLLEGE OF ENGINEERING
FDPMLA013	DHEEKONDA SWATHI	ASSISTANT PROFESSOR	ECE	SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY
FDPMLA014	Dimple Juneja	LECTURER	Commerce	Udaipur
FDPMLA015	Dr. Garlapati Narayana	PROFESSOR	CSE	Sri Indu Institute of Engineering and Technology
FDPMLA016	Dr. I. SATYANARAYANA	PROFESSOR	MECH	SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY
FDPMLA017	Dr. Nagesh K N	PROFESSOR	ECE	Nagarjuna College of Engineering and Technology
FDPMLA018	Dr. P. Surya Prasad	ASSOCIATE PROFESSOR	ECE	MVGR
FDPMLA019	Dr. R. SANKARGANESH	ASSOCIATE PROFESSOR	EEE	VINAYAKA MISSION'S KIRUPANANDA VARIYAR ENGINEERING COLLEGE
FDPMLA020	Dr.A.Seshagiri Rao	ASSOCIATE PROFESSOR	IT	PACE INSTITUTE OF TECHNOLOGY AND SCIENCES
FDPMLA021	Dr.D.KALAIYANI	ASSOCIATE PROFESSOR	Computer Technology	Dr.SNS Rajalakshmi College of Arts and Science
FDPMLA022	Dr.Lavanya Vadda	ASSISTANT PROFESSOR	ECE	MVGR college of Engineering
FDPMLA023	Dr.M.Varatharaj	ASSOCIATE PROFESSOR	ECE	V.S.B College of Engineering Technical Campus
FDPMLA024	Dr.S L PRATHAPA REDDY	ASSOCIATE PROFESSOR	ECE	KSRM COLLEGE OF ENGINEERING

FDPMLA025	Dr.S.Sivasaravanan	ASSOCIATE PROFESSOR	Mechatronics	Sathyabama Institute of Science and Technology
FDPMLA026	Dr.Suresh Subramanian	PROFESSOR	ECE	Sri Indu Institute of Engineering and Technology
FDPMLA027	DR.VENKATESH H KUMAR	PROFESSOR	ECE	Nagarjuna college of engineering and technology
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FDPMLA029	DVVS B REDDY SARAGADA	Sr. Assistant Professor	MECH	ADITYA ENGINEERING COLLEGE(A)
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FDPMLA031	G CHENNA KESHAVA REDDY	ASSOCIATE PROFESSOR	ECE	TEEGALA KRISHNA REDDY ENGINEERING COLLEGE
FDPMLA032	G HARISH BABU	ASSISTANT PROFESSOR	ECE	CVR COLLEGE OF ENGG
FDPMLA033	G NARASIMHA	ASSISTANT PROFESSOR	ECE	SRI INDU INSTITUTE OF ENGINEERING & TECHNOLOGY
FDPMLA034	G S SRAVANTHI	ASSISTANT PROFESSOR	CSE	SRI INDU INSTITUTE OF ENGINEERING & TECHNOLOGY
<b>FDP NO</b>	<b>NAME OF THE PARTICIPANT</b>	<b>DESIGNATION</b>	<b>DEPARTMENT</b>	<b>COLLEGE NAME</b>
FDPMLA035	G.SANTHOSH KUMAR	ASSISTANT PROFESSOR	ECE	CVR COLLEGE OF ENGINEERING
FDPMLA036	Ganesh Muluka	ASSISTANT PROFESSOR	ECE	Sri Indu Institute of Engineering and Technology (SIET)
FDPMLA037	GANJERUPALLI CHANDRA SEKHAR	ASSISTANT PROFESSOR	ECE	Sri Indu Institute of Engineering and Technology
FDPMLA038	Girija S	ASSISTANT PROFESSOR	ECE	Dr.Ambedkar Institute of Technology
FDPMLA039	Gurijala anitha	ASSISTANT PROFESSOR	ECE	sri indu institute of engineering technology
FDPMLA040	HARISH V	ASSISTANT PROFESSOR	ECE	Nagarjuna College of Engineering and Technology
FDPMLA041	Hemalatha K N	ASSISTANT PROFESSOR	ECE	Dr.Ambedkar Institute of Technology
FDPMLA042	J.Soulatha	ASSISTANT PROFESSOR	CSE	SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY
FDPMLA043	JYOTHI	ASSISTANT PROFESSOR	ECE	Nagarjuna college of engineering and technology
FDPMLA044	JYOTHIRMAI	ASSISTANT PROFESSOR	ECE	SRI INDU INSTITUTE OF ENGINEERING & TECHNOLOGY
FDPMLA045	Kalluri Bhaskar Reddy	ASSISTANT PROFESSOR	ECE	Sri indu Institute of engineering and technology
FDPMLA046	KARAN GURTU	Research Scholar	ECE	University of Pune
FDPMLA047	KARANAM MANOHARA RAO	ASSISTANT PROFESSOR	IT	PACE INSTITUTE OF TECHNOLOGY AND SCIENCES
FDPMLA048	Kasetty Ram babu	ASSISTANT PROFESSOR	ECE	Nagarjuna College of Engineering and Technology
FDPMLA049	KESHAVA GOWTHAM NS	ASSISTANT PROFESSOR	CSE	JYOTHY INSTITUTE OF TECHNOLOGY
FDPMLA050	koduri mallalah	ASSISTANT PROFESSOR	ECE	Sri indu institute of engineering and technology
FDPMLA051	Kommani Vijaya Prasad	PROFESSOR	ECE	Sri Chaitanya DJR College of Engineering
FDPMLA052	KONGARI SRIKANTH	ASSISTANT PROFESSOR	ECE	SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY
FDPMLA053	M LAXMI PRASANNA RANI	ASSISTANT PROFESSOR	ECE	MVGR College of Engineering(A), VIZIANAGARAM
FDPMLA054	M RENU BABU	ASSOCIATE PROFESSOR	ECE	TEEGALA KRISHNA REDDY ENGINEERING COLLEGE
FDPMLA055	M.Swarnalatha	ASSISTANT PROFESSOR	CSE	Sri Indu Institute of Engineering & Technology
FDPMLA056	m.tejaswini	ASSISTANT PROFESSOR	ECE	sri indu institute of engineering and technology
FDPMLA057	MANDADI SRUTHI	ASSISTANT PROFESSOR	CSE	SRI INDU INSTITUTE OF ENGINEERING TECHNOLOGY
FDPMLA058	Manohar Golait	ASSISTANT PROFESSOR	ECE	G H Raisoni University Saikheda MP 480337
FDPMLA059	MD.SHAMSHAD BEGUM	ASSISTANT PROFESSOR	ECE	NIMRA COLLEGE OF ENGINEERING AND TECHNOLOGY
FDPMLA060	Mrs. B. SARITHA	ASSISTANT PROFESSOR	CSE	SRI INDU INSTITUTE OF ENGINEERING & TECHNOLOGY
FDPMLA061	MS. SANJIVANI R. WADEKAR	ASSISTANT PROFESSOR	CSE	PADM.DR.V.B.KOLTE COLLEGE OF ENGINEERING, MALKAPUR
FDPMLA062	Myadari srilatha	ASSISTANT PROFESSOR	ECE	Sri indu institute of engineering and technology



FDPMLA063	NANDA KISHORE C V	ASSISTANT PROFESSOR	ECE	Nagarjuna college of engineering and technology
FDPMLA064	NARESH SURABU	ASSISTANT PROFESSOR	ECE	Sri Indu Institute of Engineering & Technology
FDPMLA065	NEELA SUSHMA	ASSISTANT PROFESSOR	EEE	SRI INDU INSTITUTE OF ENGINEERING & TECHNOLOGY
FDPMLA066	P H SWARNA REKHA	ASSISTANT PROFESSOR	CSE	SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY
FDPMLA067	P SriRamulu	ASSISTANT PROFESSOR	CSE	Sri indu institute of engineering and technology
FDPMLA068	P. Sumana	ASSISTANT PROFESSOR	ECE	Sri indu college of engineering and technology
FDPMLA069	Padma	ASSISTANT PROFESSOR	ECE	Sri Indu Institute of Engineering and Technology
FDPMLA070	PAPA RAO CHALLAGUNDLA	ASSOCIATE PROFESSOR	ECE	GUNTUR ENGINEERING COLLEGE
FDPMLA071	PARRI KRISHNA RAO	ASSISTANT PROFESSOR	ECE	Sri Indu Institute of Engineering and Technology
FDPMLA072	PATRA MANOHARA RAO	ASSOCIATE PROFESSOR	ECE	GUNTUR ENGINEERING COLLEGE
FDPMLA073	POLELLOLA DINAKAR	ASSISTANT PROFESSOR	CSE	Sri Indu Institute of engineering and technology
FDPMLA074	Poornima Raikar	ASSISTANT PROFESSOR	CSE	KLS VEDIT HALIYAL
FDPMLA075	POSHAM UPPAMMA	ASSISTANT PROFESSOR	CSE	SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY
FDPMLA076	Pranesh Kulkarni	ASSISTANT PROFESSOR	CSE	KLS VEDIT HALIYAL
<b>FDP NO</b>	<b>NAME OF THE PARTICIPANT</b>	<b>DESIGNATION</b>	<b>DEPARTMENT</b>	<b>COLLEGE NAME</b>
FDPMLA077	Prasuna Kantamaneni	ASSISTANT PROFESSOR	ECE	Vijaya Institute of Technology for Women
FDPMLA078	PRAVALLIKA PASUNOORI	ASSISTANT PROFESSOR	EEE	SRI INDU INSTITUTE OF ENGINEERING & TECHNOLOGY
FDPMLA079	Praveen Hugar	ASSISTANT PROFESSOR	IT	J.B Institute of Engineering and Technology
FDPMLA080	Prof. Yasmeen Shaikh	ASSISTANT PROFESSOR	CSE	KLS Vishwanathrao Deshpande Institute of Technology, Haliyal
FDPMLA081	Pujitha j	ASSISTANT PROFESSOR	CSE	Siit
FDPMLA082	R . PRAKASH KUMAR	ASSISTANT PROFESSOR	ECE	CVR COLLEGE OF ENGINEERING
FDPMLA083	Ramesh Poliseti	ASSISTANT PROFESSOR	CSE	Sri indu Institutions of Engineering and Technology
FDPMLA084	S.ANITHA	ASSISTANT PROFESSOR	CSE	SRI INDU INSTITUTE OF ENGG AND TECHNOLOGY
FDPMLA085	SANABOINA LEELA KRISHNA	ASSISTANT PROFESSOR	CSE	SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY
FDPMLA086	SANDHYA BOLLA	ASSISTANT PROFESSOR	ECE	SRI INDU COLLEGE OF ENGINEERING AND TECHNOLOGY
FDPMLA087	SHIVACHALESH GUDDODAGI	ASSISTANT PROFESSOR	CSE	KLS Vishwanathrao Deshpande Institute of Technology, Haliyal
FDPMLA088	Shivaprasad Satla	ASSISTANT PROFESSOR	CSE	S R University
FDPMLA089	Shruti. K	Python Developer	M. Sc CS	Gulbarga university kalburgi
FDPMLA090	SILPA PEETHALA	ASSISTANT PROFESSOR	ECE	Vijaya institutions of technology for women
FDPMLA091	Sowjanya Vuddanti	ASSOCIATE PROFESSOR	CSE	PSCMR COLLEGE OF ENGINEERING & TECHNOLOGY
FDPMLA092	SREENIVASULU K N	ASSISTANT PROFESSOR	ECE	Nagarjuna College of Engineering and technology
FDPMLA093	sri silpa padmanabhuni	ASSOCIATE PROFESSOR	CSE	PSCMR COLLEGE OF ENGINEERING & TECHNOLOGY
FDPMLA094	Sriramakavacham Prudhvi Raj	LECTURER	CSE	Sri Indu Institute of Engineering and Technology
FDPMLA095	Sudhakar Kattupalli	ASSOCIATE PROFESSOR	CSE	PSCMR COLLEGE OF ENGINEERING & TECHNOLOGY
FDPMLA096	Sudharani Chidurala	ASSISTANT PROFESSOR	ECE	SR University
FDPMLA097	SURESH BALLALA	ASSOCIATE PROFESSOR	ECE	SRI INDU INSTITUTE OF ENGINEERING & TECHNOLOGY
FDPMLA098	swathi shastry	ASSISTANT PROFESSOR	CSE	KLS VEDIT, HALIYAL
FDPMLA099	T MALATHI	ASSISTANT PROFESSOR	BUSINESS MANAGEMENT	ST. JOSEPH'S DEGREE & PG COLLEGE

FDPMLA100	T NEETHA	ASSOCIATE PROFESSOR	CSE	BRILLIANT GRAMMAR SCHOOL EDUCATIONAL SOCIETY'S GROUP OF INSTITUTIONS
FDPMLA101	T Venkateswara Rao	PROFESSOR	ECE	SIR C R Reddy College of Engineering
FDPMLA102	T.Bhavani	ASSISTANT PROFESSOR	ECE	Sri indu inistitute of Engineering &Technology
FDPMLA103	THALLA HEMALATHA	ASSISTANT PROFESSOR	ECE	AGI
FDPMLA104	THEDDU NARESH	ASSISTANT PROFESSOR	ECE	PSCMR COLLEGE OF ENGINEERING & TECHNOLOGY
FDPMLA105	Thudimilla sadhana	ASSISTANT PROFESSOR	ECE	sri Indu Institute of Engg.& Technology
FDPMLA106	USIKELA NARESH	ASSISTANT PROFESSOR	CSE	SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY
FDPMLA107	Vasavi chithanuru	ASSOCIATE PROFESSOR	CSE	Sri indu Institute of engineering and technology
FDPMLA108	VEERA KISHORE KADAM	ASSOCIATE PROFESSOR	CSE	SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY, HYDERABAD
FDPMLA109	VENU IPPALAPALLI	ASSISTANT PROFESSOR	ECE	SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY
FDPMLA110	VIJAY SHANKER NALLAPATI	ASSOCIATE PROFESSOR	ECE	CHEBROLU ENGINEERING COLLEGE
FDPMLA111	Y RAJANI	ASSISTANT PROFESSOR	ECE	SRI INDU INSTITUTE OF ENGINEERING & TECHNOLOGY
FDPMLA112	YADA SUNITHA	ASSISTANT PROFESSOR	CSE	SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY
FDPMLA113	Yogesh Tiwari	ASSISTANT PROFESSOR	ECE	Chandubhai S Patel Institute of Technology



**HODECE**

Potti Sriramulu Chalavadi Mallikharjuna Rao  
College of Engineering & Technology  
Kothapet, VIJAYAWADA-520 001.



**PRINCIPAL**

Potti Sriramulu Chalavadi Mallikharjuna Rao  
College of Engineering & Technology  
Kothapet, VIJAYAWADA-520 001.



## **Two-week Faculty Development Program on “Machine Learning and its Applications ” in association with AICTE.**

**12<sup>th</sup> February to 25<sup>th</sup> February 2021**

**FDP Coordinator: Dr.M.Ranga Rao**

Machine/Deep learning is the science of designing and applying algorithms that can learn things from past cases. Computer Vision tries to do what a human brain does with the retinal data that means understanding the scene based on image data. Video signal is basically a sequence of time varying images. Computer Vision and Video processing are used in innovative and exciting applications in fields of speech, audio, Video and in medical applications.

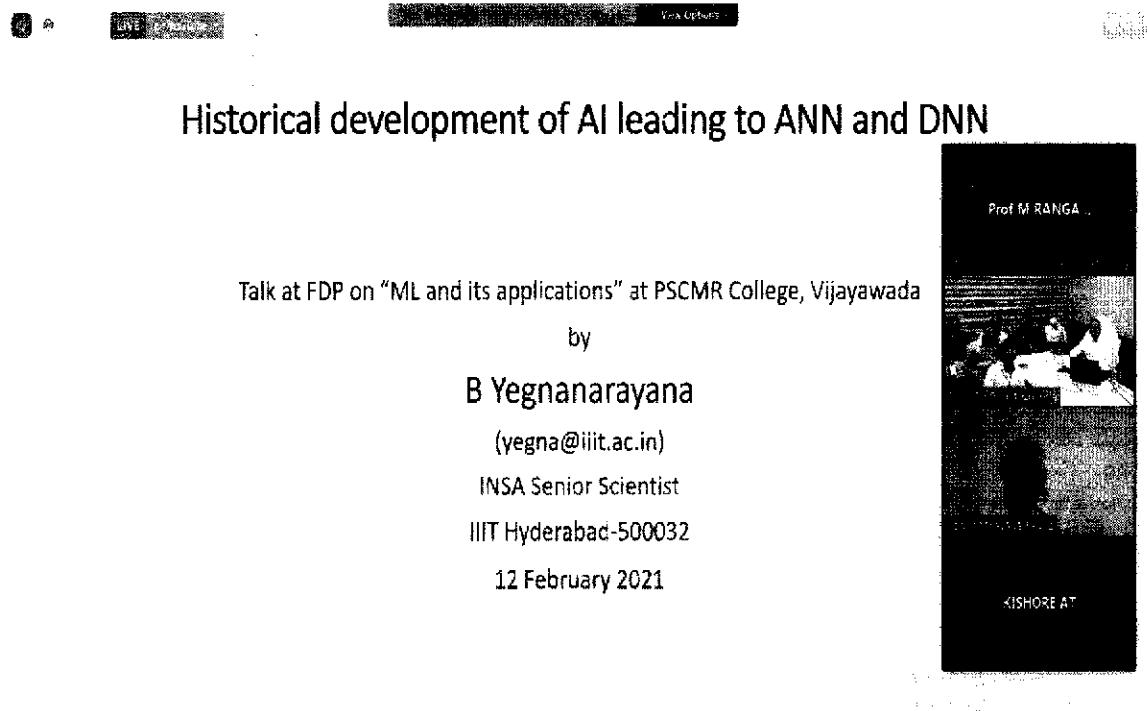
### **Objective of this FDP:**

- It is necessary to make faculty of Engineering colleges, Universities, and people from industry aware of opportunities and challenges in the field.
- To create awareness about Machine Learning and how it can be applicable in the field of Computer Vision and Video Processing techniques and its importance over traditional techniques.
- To create awareness about the applications of Machine Learning, Computer Vision and Video Processing.
- To promote Research in the area of Computer Vision, Video Processing by applying various ML techniques.
- To enhance faculty confidence level while teaching concepts of Computer Vision, Video Processing by applying various ML techniques.
- To bridge the gap between industry and academia.
- To serve as an induction program for Ph.D researchers working in the area of Computer Vision, Video Processing, Machine Learning.
- To provide a forum for academicians and researchers to discuss emerging trends in aforementioned areas.

**Day 1, 12<sup>th</sup> FEB 2021**

Inaugural function started at 10.00 AM. FDP coordinator Dr.M.Ranga Rao welcomed all the participants and gave a brief idea about program and basic theme on which all the sessions would be carried out in the duration of program. Hon'ble principal Dr. Sri Rama Krishna and convener Dr. A. Ravi greeted all the participants and gave their valuable thoughts on importance of such programs. They congratulated Dr.M.Ranga Rao for arranging Online FDP and wished all the participants a good time ahead.

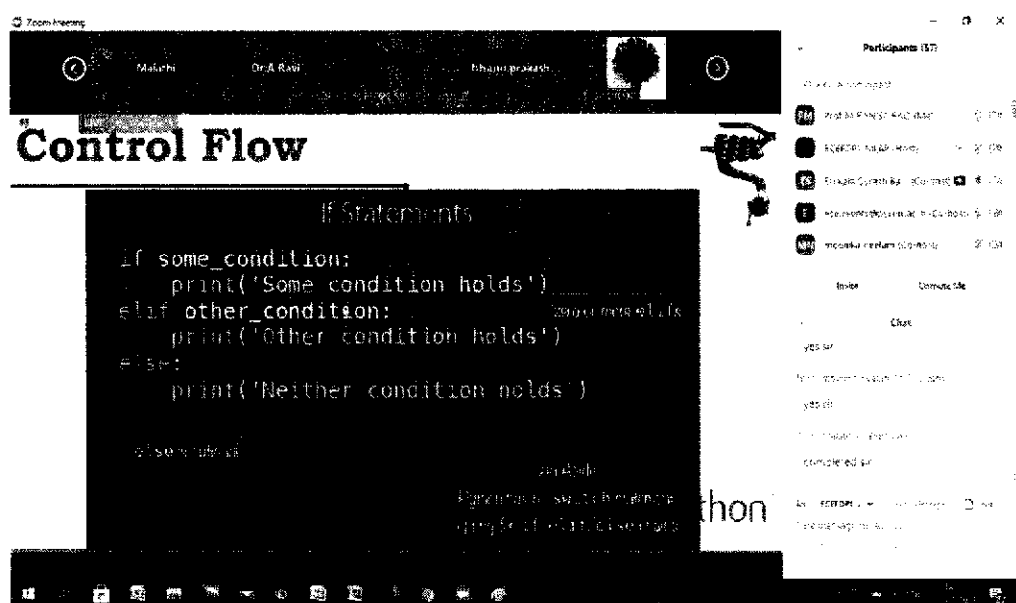
Keynote was delivered by Dr. Bayya Yegnannarayana, IIT Hyderabad. Theme of the speech was **Historical development of AI leading to ANN and DNN** which is essentially inline with subject of FDP.



The image shows a Zoom meeting interface. At the top, there's a header bar with 'LIVE' and 'Vijaya Lakshmi'. The main content area displays a presentation slide with the title 'Historical development of AI leading to ANN and DNN'. Below the title, it says 'Talk at FDP on "ML and its applications" at PSCMR College, Vijayawada by B Yegnannarayana (yegna@iiit.ac.in) INSA Senior Scientist IIIT Hyderabad-500032 12 February 2021'. On the right side, there's a vertical sidebar with a profile picture of Prof. M. Ranga and a list of participants including Kishore AT.

This session was very informative and interesting as it is covered the topics beginning from the very basic including definition of Artificial intelligence to application areas where we can use it.

Post lunch session was supervised by Dr. T. Kishore Kumar, NITW explained **"Introduction to machine learning and its Applications in signal processing"**. This session provided deep insight into various aspects of machine learning.



The image shows a Zoom meeting interface. At the top, there's a header bar with 'Zoom Meeting' and a list of participants including Malathi, Dr. A. Ravi, and Bhajur Prakash. The main content area displays a presentation slide titled 'Control Flow' with a sub-heading 'If Statements'. The slide contains Python code for an if-elif-else statement. On the right side, there's a vertical sidebar with a list of participants including Prof. M. Ranga, Kishore AT, and others.

```
if some_condition:
    print('Some condition holds')
elif other_condition:
    print('Other condition holds')
else:
    print('Neither condition holds')
```

Zoom Meeting

Participants (50)

PM Prof M RANGA, SAC (Jale)

ECEPOT MLAP (Host)

Erukala Suresh Ba... (Co-host)

icevents@pscm.ac.in (Co-host)

mounika neelam (Co-host)

Megha...

anil

ajudev@bigupala.ac.in

bharatprakash@pscm.ac.in

Chaitan's cotel

Diva Suresh Chitra

Dr. Lakshya Reddy

Dr. Ravi

FOKALD@pscm.ac.in

mute Unmute Me

## If-Then-Else Conditional : Example

```

value = 99
if value == 99:
    print 'That is fast'
elif value > 200:
    print 'That is too fast'
else:
    print 'That is safe'

```

python

## Day 2, 13-FEB 2021

Day 2 started with session by ProfDr.M. VinodhKumar,NITW, on Machine Learning,Deep Learning.This session is Introduction to neural networks.

Zoom Meeting

Prof M RANGA Mounika Neelam Erukala Suresh... VENKATA RAM...

Participants (52)

PM Prof M RANGA, SAC (Jale)

ECEPOT MLAP (Host)

Erukala Suresh... (Co-host)

mounika neelam (Co-host)

Anishaj

Anuska Mandaraj

CHAITAN'S PAEL

Dr. HARSHANA GARLARI

Dr. Suresh Subramanian

E. RUKA

Eretdip

FOKALD@pscm.ac.in

FOKALD@pscm.ac.in

Link

Chat

## Mirai at Glance

```

graph TD
    CC[Command & Control] <--> BN[Botnet Nodes]
    CC <--> DDoS[DDoS for Hire-User]
    CC <--> BM[Bot Master]
    BN --> DV[DDoS Victim]
    BN --> RS[Report Server]
    BN --> SI[Scanning Internet for New Nodes]
    SI --> ML[Malware Loader]
    ML --> BN

```

In the afternoon session Dr. E. Suresh Babu, NITW explained Hands on python basics-I. Day was concluded after the session by Dr. E. Suresh Babu, NITW.

The screenshot shows a Zoom meeting interface. The main window displays a slide titled "Functions" with the subtitle "Writing Functions". The slide content includes the text "The def keyword defines a function" and "Parameters have an explicit type". It shows a Python function definition: `def fn_name(param1, param2):`, followed by `value = do_something()` and `return value`. Below the code, it says "return keyword" and "if value returned by code, you can find, eg. len() returns value". The Python logo is visible in the bottom right corner of the slide. The Zoom meeting bar at the top shows participants: Chintan S Patel, Malathi, Dr. A Rawl, and abhanu prakash. A sidebar on the right lists 158 participants, including Sridhar Ramesh, Sreenithy Nair, and others. A chat window is also visible on the right.

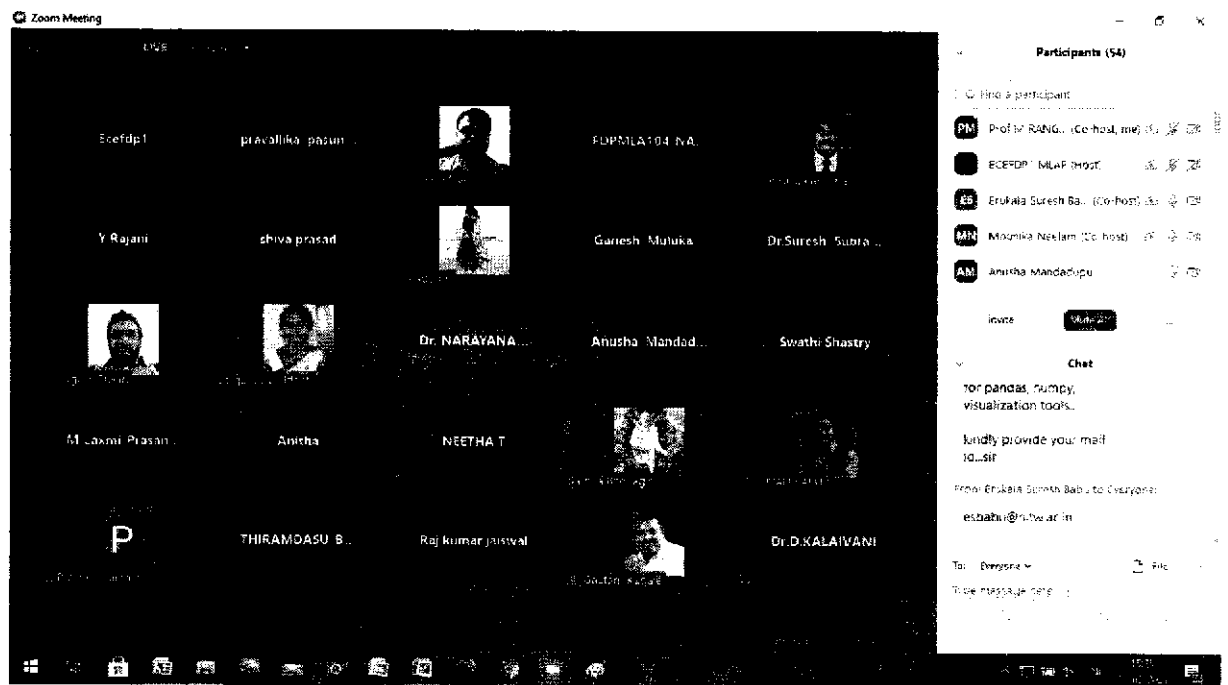
The participants are actively involved in listening the lectures Hands on python basics-I.

## Day 3, 15<sup>th</sup> FEB 2021

On Day 3 Dr. D.M. Vinodh Kumar, NITW explained about Machine Learning in Computer vision and Video Processing and application in that field.

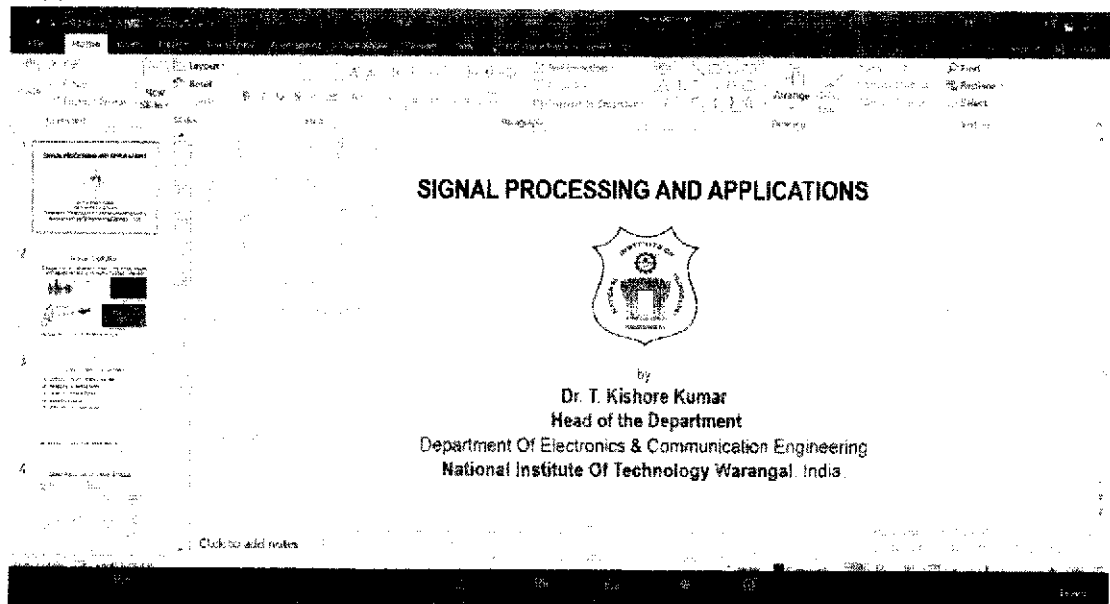
The screenshot shows a Zoom meeting interface. The main window displays a slide titled "Mirai at Glance". The slide content includes a diagram illustrating a botnet attack. The diagram shows an "Attacker" sending an "Initiate Attack" signal to a "Control Server". The "Control Server" then sends "Initiate Attack" signals to multiple "Botnet Attack Nodes". These nodes send "Attack Traffic" to a "Victim". The Zoom meeting bar at the top shows participants: Prof M RANGA, Mounika Neelam, Erukala Suresh, and VENKATA RAM. A sidebar on the right lists 156 participants, including Anisha Mandadapu, Chintan S Patel, Dr. Narayana Garlapati, Dr. Suresh Subrahmanian, and ERLPA. A chat window is also visible on the right.

In the afternoon session **Dr.E.SureshBabu,NITW** explained Hands on python basics-II. He gave a brief idea python basics about in this area.



## Day 4, 16<sup>th</sup> FEB 2021

On Day 4 **Dr. T. Kishore Kumar,NITW** gave a brief lecture on Adaptive signal processing and Applications

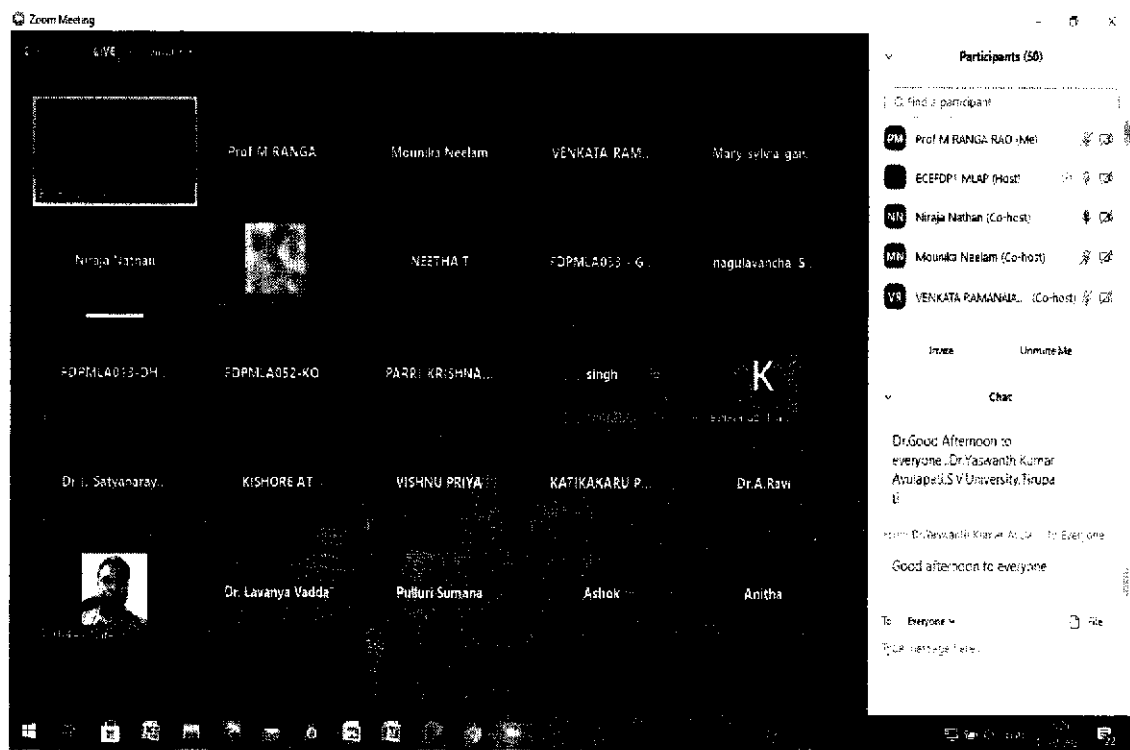


Post lunch session was again continued by **Dr. T. Kishore Kumar,NITW** on Machine learning in speech processing.

All the participants got involved in the session and got their queries answered.

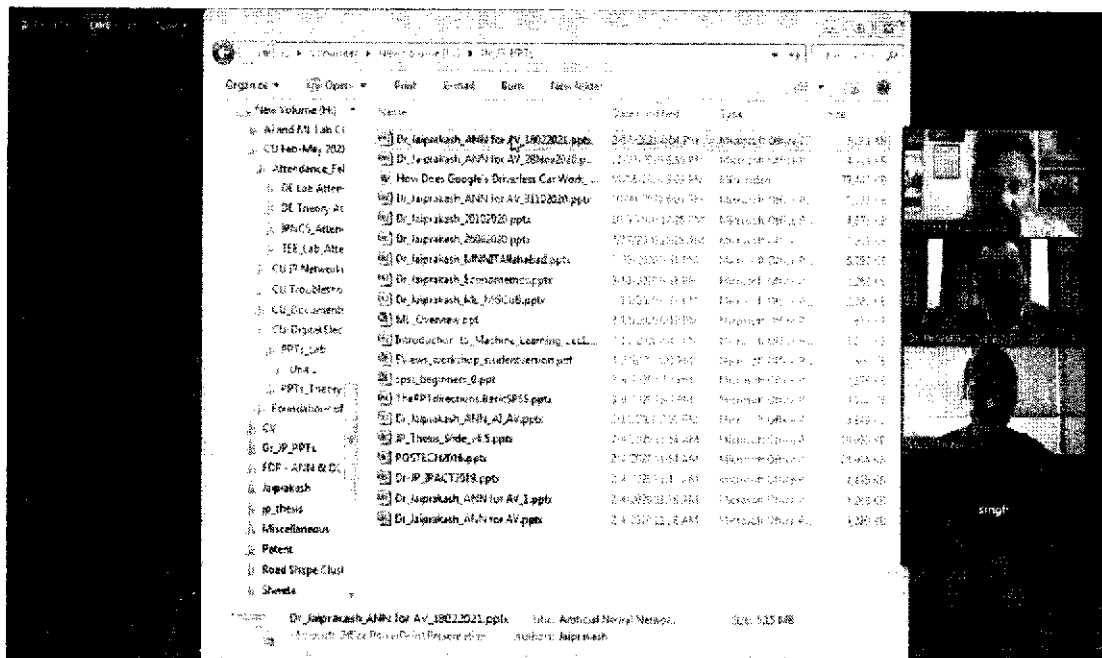






## Day 6, 18<sup>th</sup> FEB 2021

Day 6 started with a session by Dr. Jayaprakash Dwivedi, Chandigarh University explained Artificial neural networks for Autonomous vehicles. It was a refreshing experience for participants as they have actively involved in the Hands on session.




The day concluded with a session on "Machine learning for 3D Human body pose and shape recovery from images" by Dr. Avinash Sharma, IIT Hyd. In this session Dr. Avinash Sharma explained about Human body pose and shape recovery from images.

Zoom Meeting

Prof M RANGA parri krishna rao Chintan s patel Avinash

## Machine Learning based 3D Human Body Pose/Shape Recovery from Images



Avinash Sharma

CVIT, IIT Hyderabad

Participants (28)

End a participant

- Avinash (Co-host)
- Mounika Neelam (Co-host)
- VENKATA RAMANARAO (Co-host)
- Chintan s patel
- FDPVLA017 DHIRKONGDA SANKU
- FDPVLA037 GANJERAPALLU CH...
- FDPVLA039 gunjala anitha
- FDPVLA032 KONGARI SPIKANTH
- FDPVLA054 Nareesh Sutabu
- FDPVLA104
- Koteswara Rao Vaddempudi
- M Laxmi Praveena Rani
- mtejaswini
- MANJANDHI SATHI

Invite Unmute Me

Day 7, 19<sup>th</sup> FEB 2021

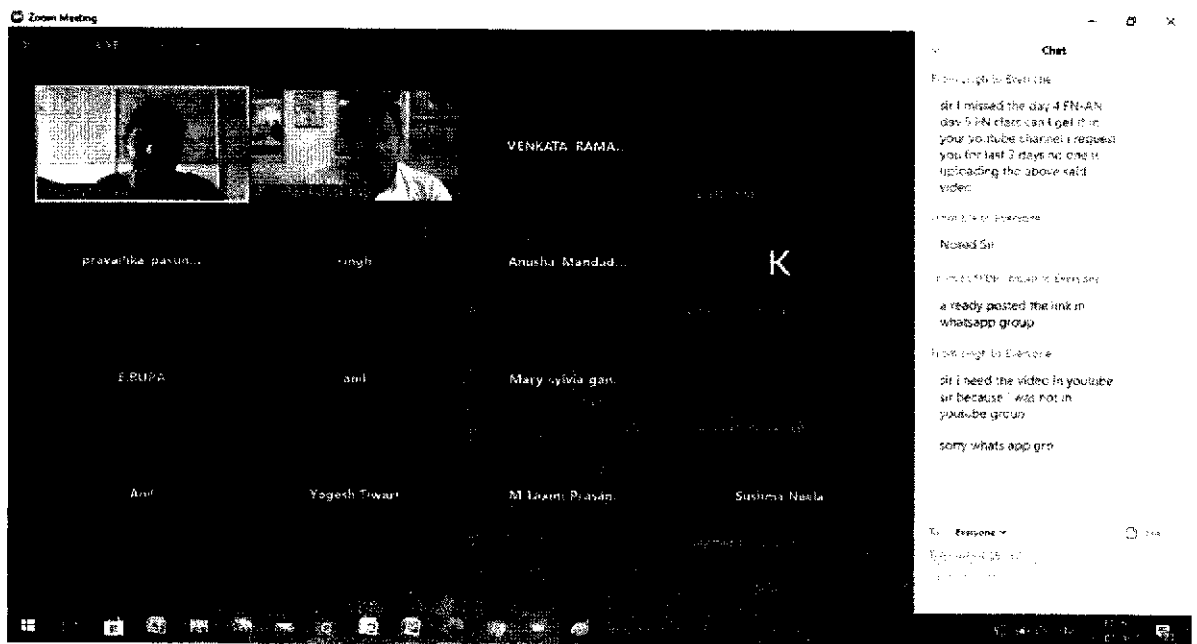
Day 7 started with a session by Dr. V. Anil Kumar, IITHyd “**Machine learning in predictive Analysis**” and he addressed how ML can be employed in Computer Vision applications. This informative talk continued till the afternoon session.

LIVE

# Introduction to Deep Learning

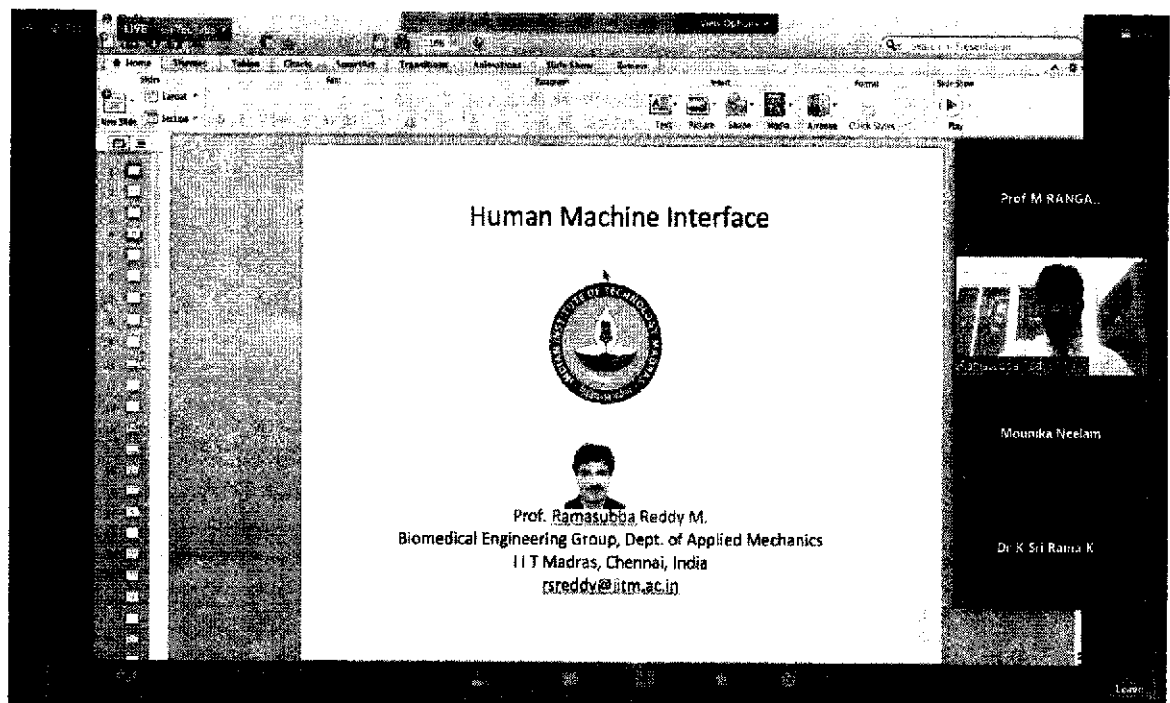
DR. ANIL KUMAR VUPPALA

The day concluded with a session on **"Automated Building ML Models for Financial market Forecasting"** by **Dr. Shiv Ram, Founder & CEO Curl Analytics**



## Day 8, 20<sup>th</sup> FEB 2021

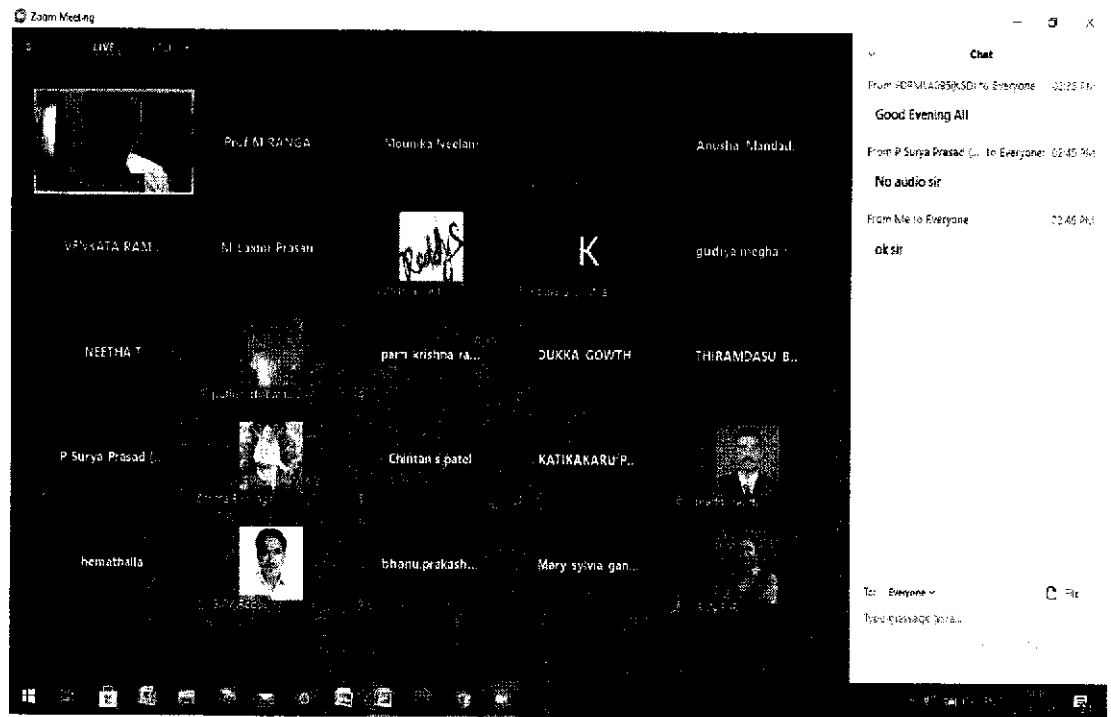
Day 8 started with a session by **Dr. M. Rama Subba Reddy, Professor IITM** explained **"Machine learning in medical applications"** and conducted hands on session on Machine Learning.



The day concluded with a session on **"Support vector machines for object detection"** by **Dr. Ashoka Reddy, Professor KITS.**







## Day 11, 23<sup>rd</sup> April 2021

Day 10 started with a session by Dr. S. N. Omkar, IISc Chief Research scientist Department of Aero space Engineering on "Machine learning Applications". Participants enjoyed a lot and clarified their doubts by interacting with resource person.

The screenshot shows a presentation slide titled "ARTIFICIAL INTELLIGENCE - APPLICATIONS". The slide is presented in a Beamer format, with a table of contents on the left side showing slides 1 through 6. The main content of the slide includes the title, the presenter's name "S N Omkar", his title "Head of UAV Lab, Computational Intelligence Lab, Yoga & Biomechanics Lab", his department "Department of Aerospace Engineering", and his institution "Indian Institute of Science". Below this information is the "UAV LABORATORY" logo, which features a stylized "UAV" with a circular emblem containing a triangle and a circle. The slide is displayed within a Beamer presentation window, showing the navigation and search tools at the top and bottom.

The day concluded with a session on "Machine learning in Biology - Applications, opportunities and Challenges/" by Dr. M. G. Sumithra, Head centre for Research and

Development KPRIT,Bangalore.He explained how Deep Learning is used in Image Processing applications.

**Machine Learning in Biology**  
Applications, Opportunities and Challenges

**Dr. M.G. SUMITHRA**  
Sr. Member IEEE, NVIDIA DLI Certified Instructor  
Professor / ECE & Head / Centre for Research and Development  
KPR Institute of Engineering and Technology, Coimbatore.  
sumithra.mg@kpriet.ac.in, sumithra.1973@ieee.org

Prof. M. RANGA

**Day 11, 24<sup>th</sup> FEB 2021**

Day 11 started with a session by Mr. A.T. Kishore, CEO-VST on "Machine Learning in Cognitive Radio".

**Electromagnetic Waves Fundamentals**

- If you transmit one watt(30dBm) and measure at a meter distance on the receiver, you would get like microwatt(-30dBm, which is considered a excess receive power from normal mobile parlance, which is typically -65dBm and lesser upto -100 dBm , -110 dBm, -120 dBm
- From mere sensing a spectrum of frequency, we may emulate a mobile device modus operandi like initialization state, picking up first the pilot channel
- Pilot is typically 15 percent of whole power radiated and it acts as a beacon for mobile to get hold of it for RSSI

Slide 4

Participants (33)

- Dr. M. Ranga Rao (Host)
- EEEFOP1 MIAP (Host)
- KISHORE AT (Co-Host)
- VENKATA PERMANA... (Co-Host)
- Anusha Mandadapu
- Chetan S. Patel
- KPRALAC12-Dheekonda SWATH...
- PDSMA12-gurjula anitha
- G.C.K.Reddy
- hemachand
- Kpranishu Badrinar
- Prashant Gokhale
- NEETHA
- P. Srinivasan (KPRALAC12)

Zoom Meeting

Dr. M. Ranga Rao KISHORE AT VENKATA RAM... Raj kumar jaiswal

**Sense**

- Working Principle
- Placement
- Direct Value / Derived Value
- Digital / Analog
- Characteristics
  - Accuracy & Error
  - Precision / Repeatability / Reproducibility
  - Tolerance, Range or Span
  - Drift
  - Resolution
  - Hysteresis
  - Sensitivity
- In-built Algorithms
- Calibration – Primary, Secondary, Auto

Participants (44)

Find a participant

DM Dr. M. Ranga Rao (Co-host, me) [20]

ECEFDPI MLAP (Host) [20]

Bhavani Shankar (Co-host) [20]

VR VENKATA RAMANUJA... (Co-host) [20]

A Ashok [20]

Invite [20]

Chat

From KISHORE AT to Everyone

message from our org team ...

the presenter is going to join quickly

To: Everyone [20] File

Give message here...

Go to [20]


8

Windows taskbar: 14:50 24-02-2021

The day concluded with a session on **"Machine Learning in Industry Automation"** by Mr. Bhavani Sankar, Executive Manager, Efftronics System Pvt. Ltd.

## Day 12, 25<sup>th</sup> FEB 2021

Day 12 started with a session by Dr. U.S.N. Raju, Assistant professor, NITW on **"Big Image Data processing using Deep Learning Techniques"**.



# Big Image Data Processing using Deep Learning Techniques

by  
Dr. U.S.N. Raju  
Asst. Professor, Dept. of CS&E,  
N.I.T. Warangal

1 Big Image Data Processing

25-Feb-21

Dr. M. Ranga Rao

Mounika Neelan

ECEFDPI MLAP

Activate with Windows

The day concluded with a session on **"Deep Learning Techniques for speech and Audio Applications"** by Dr. K. Srinivas Rao, Professor, IITK.

*A. Raju*  
**HOD-ECE**  
Potti Sriramulu Chalavadi Mallikharjuna Rao  
College of Engineering & Technology  
Kothapet, VIJAYAWADA-520 001.

**PRINCIPAL**  
Potti Sriramulu Chalavadi Mallikharjuna Rao  
College of Engineering & Technology  
Kothapet, VIJAYAWADA-520 001.



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## AICTE SPONSORED FDP ON MACHINE LEARNING AND ITS APPLICATIONS

# Certificate OF PARTICIPATION

This certificate is issued to  
Dr./Mr./Mrs./Ms. **MRS. A V KIRANMAI**  
of **PSCMR COLLEGE OF ENGINEERING AND TECHNOLOGY**

for active participation in the **AICTE Sponsored** Two Week

**Faculty Development Programme on "Machine Learning and It's Applications"**  
Organized by Department of Electronics and Communication Engineering, PSCMRCET  
during **12<sup>th</sup> - 25<sup>th</sup> Feb, 2021.**

**Dr. M. Ranga Rao**  
Coordinator, Prof. ECE

**Dr. A. Ravi**  
HOD ECE

**Dr. K. Sri Rama Krishna**  
PRINCIPAL - PSCMRCET





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Organized by Department of Electronics and Communication Engineering, PSCMRCET  
during 12<sup>th</sup> - 25<sup>th</sup> Feb, 2021.

**Dr. M. Ranga Rao**  
Coordinator, Prof. ECE

**Dr. A. Ravi**  
HOD ECE

**Dr. K. Sri Rama Krishna**  
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of **PSCMR COLLEGE OF ENGINEERING AND TECHNOLOGY**

for active participation in the **AICTE Sponsored** Two Week

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during 12<sup>th</sup> - 25<sup>th</sup> Feb, 2021.

**Dr. M. Ranga Rao**  
Coordinator, Prof. ECE

**Dr. A. Ravi**  
HOD ECE

**Dr. K. Sri Rama Krishna**  
PRINCIPAL - PSCMRCET





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COLLEGE CODE : **PSCV** [ EAMCET, ECET, ICET, POLYCET ]



Date: 12/06/2020

**CIRCULAR**

Department of Computer Science & Engineering has planned to conduct and **Faculty Development Program on "MOVING TO MASTER SCIENCE IN TECHNOLOGY (MMST: 2020)"** to our faculty from 16-06-2020 to 20-06-2020. Faculties are asked to attend the program without fail.

Venue: - Aryabhatta Lab

Time: 10:00AM to 12:00PM and 2:00PM to 4:00PM

  
Principal

(Dr K Nageswara Rao)

Copy to:

1. Circular File
2. Faculty Circulation
3. Notice Board

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Kothapeta, Vijayawada-520001(A. P.)

**DEPARTMENT OF COMPUTER SCIENCE &  
ENGINEERING**

**Invitation**

The Management, Principal and Staff cordially

Invite you to the inauguration of

Five-Day Faculty Development Program

on

**MOVING TO MASTER SCIENCE IN TECHNOLOGY  
(MMST: 2020)**

On Tuesday 16<sup>th</sup> June 2020

At 10:00 A.M., Online Mode

**Speakers**

**Dr. M. R. Sekhar**

Assistant Professor, Dept of Physics, IIT Tirupathy

**Dr. M. Santosh Kumar**

Assistant Professor, Dept of ECE, IIT Ranchi

**Dr. P. Mohanty**

Associate Professor, Dept of Chemistry, IIT Roorkee

  
HOD & STAFF

DEPARTMENT OF CSE



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College of Engineering & Technology  
Kothapeta, VIJAYAWADA-520 001.

HOD-CSE  
Potti Sriramulu Chalavadi Mallikarjuna Rao  
College of Engineering & Technology  
Kothapeta, VIJAYAWADA-520





# PSCMR

College of Engineering & Technology

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ISO 9001:2015 Certified

## A FACULTY DEVELOPMENT PROGRAMME

"MOVING TO MASTER SCIENCE IN TECHNOLOGY  
(MMST: 2020)"

Organized by

Department of Computer Science and  
Engineering

16-06-2020 To 20-06-2020

*K. Ravi*

PRINCIPAL  
Potti Sriramulu Chalavadi Mallikharjuna Rao  
College of Engineering & Technology  
Kothapeta, VIJAYAWADA-520 001.



#### About the FDP

A 5-Days Faculty Development Program on **“MOVING TO MASTER SCIENCE IN TECHNOLOGY (MMST: 2020)”** aims to introduce "A journey through low-temperature physics with various exotic phases" in this he delivers some exotic magnetic and superconducting phases as a function of temperature, magnetic field, pressure due to the coupling of electron spin, charge and lattice degrees of freedom. Phase transition is a common phenomenon in our day-to-day life”.

#### Registration

**Registration is FREE**

**Attendance and Feedback are mandatory to get Certificate.**

**Venue: Aryabhata Lab**



**5 Day Faculty Development Program  
on  
MOVING TO MASTER SCIENCE IN  
TECHNOLOGY (MMST: 2020)”**

**16-06-2020 to 20-06-2020**



**Organized by  
DEPARTMENT OF COMPUTER SCIENCE &  
ENGINEERING  
PSCMR COLLEGE OF ENGINEERING &  
TECHNOLOGY**

Vijayawada, Andhra Pradesh

Website: [www.pscmr.ac.in](http://www.pscmr.ac.in).

#### About the Institute

PSCMR COLLEGE OF ENGINEERING & TECHNOLOGY (PSCMR), established in the year 2008, is sponsored by **SKPVV – Sri Kanyaka Parameswari Vissamsetty Venkataratnam (SKPVV) Hindu High Schools Committee**. The society was formed by a group of philanthropists from business community of Vijayawada, Krishna District, Andhra Pradesh in the year 1906. They contributed their might and collected donations from the like minded people and started primary school to provide education to the poor students of local area and surrounding villages, where there were no schools at that time. The society was registered with the Register of Krishna District in 27<sup>th</sup> November 1915.

PSCMRCET has been in the forefront imparting high quality technical education. State of the art infrastructure in all branches of engineering, dedicated and qualified staff, highly conducive environment for teaching-learning process are the hallmarks of this professionally managed institution.

The institute is accredited by NAAC and its programmes are accredited by National Board of

Accreditation (NBA). The institute is affiliated to Jawaharlal Nehru Technological University, Kakinada (JNTUK).

#### About the Department

The department offers UG program in **Computer Science & Engineering**. It has been established in the year 2008 with the current annual intake of 120 students. Computer Science Engineering (CSE) is one of the most sought after course in engineering. Today, Computer Science Engineers are very highly sought after as they are now developing the most complex and innovative forms of technology that we all use today. The department is accredited by **NBA**.

#### Chief Patron(s)

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Founder & President

**Sri Sriram Radha Krishna Murthy**

Vice President

#### Patron(s)

**Sri R.V. Subba Rao**

Secretary And Correspondent

**Sri Sriram Razith Kumar**

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**Sri K. Venkateswara Rao**

Treasurer

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**Dr. K. Nageswara Rao**

Principal

#### Convener

**Dr. A. Patanjali Sastri**

HOD, CSE

#### Coordinator

**Dr. A. Bindu Madhavi,**

Prof., FED

*knocw*

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College of Engineering & Technology  
Kothapet, VISAYANADA-520 001.



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CONTACT : +91 -866 - 2423442 / E-MAIL : [principal@pscmr.ac.in](mailto:principal@pscmr.ac.in) / [info@pscmr.ac.in](mailto:info@pscmr.ac.in)

COLLEGE CODE : **PSCV** [ EAMCET, ECET, ICET, POLYCET ]



A National Level 5 Day Virtual Faculty Development Program on "MOVING TO MASTER SCIENCE IN TECHNOLOGY (MMST: 2020)"

## Faculty Attendance Sheet

[illegible]



20.	Mrs. M. Deepika	M-Deepika	M-Deepika	M-Deepika	M-Deepika	M-Deepika	M-Deepika	M-Deepika	M-Deepika	M-Deepika	M-Deepika
21.	Ms. O. Sravani	Sravani	Sravani	Sravani	Sravani	Sravani	Sravani	Sravani	Sravani	Sravani	Sravani
22.	Ms. M. Ramaya	Ramya	Ramya	Ramya	Ramya	Ramya	Ramya	Ramya	Ramya	Ramya	Ramya
23.	Mr. MD. Haji Ali	MD-ALI	MD-ALI	MD-ALI	MD-ALI	MD-ALI	MD-ALI	MD-ALI	MD-ALI	MD-ALI	MD-ALI
24.	Mr. Khasimpeera Mahammed	pharin	pharin	pharin	pharin	pharin	pharin	pharin	pharin	pharin	pharin
25.	Mrs. CH. B. V. Durga	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
26.	Mrs. M. Kalpana	Kalpana	Kalpana	Kalpana	Kalpana	Kalpana	Kalpana	Kalpana	Kalpana	Kalpana	Kalpana

  
Signature of HOD

  
Signature of Principal

HOD-CSE  
Potti Sriramulu Chalavadi Mallikharjuna Rao  
College of Engineering & Technology  
Kothapet, VIJAYAWADA-520 001

PRINCIPAL  
Potti Sriramulu Chalavadi Mallikharjuna Rao  
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COLLEGE CODE : PSCV [ EAMCET, ECET, ICET, POLYCET ]



**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

**REPORT ON FACULTY DEVELOPMENT PROGRAMME ON**

**“MOVING TO MASTER SCIENCE IN TECHNOLOGY (MMST: 2020)”**

**Event Type:** FDP

**Date / Duration:** Five-Days during 16 June 2020 to 20 June 2020

**Resource Persons:** Dr. M. R. Sekhar

Assistant Professor of Physics

IIT Tirupathy

**Name of Coordinators:** Dr.A. Bindu Madhavi, Professor

**Target Audience:** Faculty members of Engineering Colleges

**Objective of the event:**

1. The Faculty Development Program (FDP) is intended to bring together leading academic and research faculty to exchange knowledge and discuss their research findings.
2. It includes investigations to understand the various problems in different fields of science and technology.

**Outcome of event:**

1. Participants became aware of the current practices prevailing in teaching and research methodologies
2. Participants got insight into the areas where continuous improvements through continual learning and active research is required in developing sustainable and low cost construction solutions to solve the society problems.

**Feedback / Suggestions:** Positive and encouraging. More programmers are required.

*K. S. S. S.*

**PRINCIPAL**  
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College of Engineering & Technology  
VIJAYAWADA-520 001.

## **REPORT**

A Five day FDP on **“MOVING TO MASTER SCIENCE IN TECHNOLOGY (MMST: 2020)** is organized in Computer Science & Engineering Department of PSCMRCET during June 16-20, 2020.

1. Dr. Rudra Sekhar Manna, Assistant Professor, Department of Physics from IIT Tirupathy will be discussing "A journey through low-temperature physics with various exotic phases" in this he delivers some exotic magnetic and superconducting phases as a function of temperature, magnetic field, pressure due to the coupling of electron spin, charge and lattice degrees of freedom. Phase transition is a common phenomenon in our day-to-day life.
2. Dr. Santosh Kumar Mahto, Assistant Professor, Dept. of Electronics & Communication Engineering from IIIT Ranchi discusses the “Application of Soft Computing optimization technique in electromagnetic”. Synthesis of Linear and non-linear array antenna.
3. Dr. Paritosh Mohanty, Associate Professor, Department of Chemistry from IIT Roorkee will be discussing past, present and future of “Nanoporous materials and applications”.
4. Dr. Thaseem Thajudeen, Assistant Professor, Mechanical Engineering Department from IIT Goa discusses an overview of the “Impact of Aerosols: Tiny particles, Huge impact” including transmission of COVID-19, pollution, climate change etc.
5. Dr. Panchatcharam Mariappan, Assistant Professor, Department of Mathematics and statistics from IIT Tirupathy will be talking about the basics of “Mathemathematical Modeling, Bioheat Equation derivation, SIR, SIRD model”.
6. Dr. Indira P. Debnath, Assistant Professor, Applied Mathematics and Humanities from NIT Surat will be discussing about “Support Vector Machines and their Optimization Techniques”



**Resource Person Demonstrating Mathematical Modeling**

## WDO Technique Cont...

### Pseudo Code for the WDO Implementation

1. Define dimension limits, population size, maximum number of iterations, coefficient, and all other parameters.

2. Initialize the position and velocity of all air parcels. Where the initial population is randomly distributed over the N- Dimensional search space.

3. Evaluate the pressure of the whole population at their current positions and rank them.

4. Update velocity and check velocity limit

5. Update position and check position boundaries.

6. Continue from step 3 until the maximum number of iterations are exhausted.

Dr. S. Kumar, MIT Bhopal

10-04-2023



Resource Person Presenting Optimization Techniques

*K Rao*

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Kothapeta, Vijayawada-520001 (A. P.)

## DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Date: 20/06/2020

From,

CSE Department,

PSCMR CET,

Vijayawada.

To,

Dr. M. R. Sekhar

Assistant Professor of Physics

IIT Tirupathy

Respected sir,

Thank you very much for spending your valuable time and delivering an informative thought provoking Lecture on “**MOVING TO MASTER SCIENCE IN TECHNOLOGY (MMST: 2020)**” for the FDP held during 16/06/2020 to 20/06/2020.

It was really a splendid presentation, which gave an opportunity for our Faculty to learn. All the participants appreciated and got benefited from your view on subject. Your words of encouragement and guidance were well received by all the participants and your willingness to engage with our Faculty was much appreciated.

It was a pleasure for all of us to meet you. We look forward for the same relationship in the future.

Thanking you sir,

Yours Sincerely

Dr. A. Bindu Madhavi

PRINCIPAL  
Potti Sriramulu Chalavadi Mallikharjuna Rao  
College of Engineering & Technology  
Kothapeta, VIJAYAWADA-520 001.



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**Department of Computer Science and Engineering**



**CERTIFICATE**  
**OF PARTICIPATION**

*This is to certify that*

Mr./Ms./Dr K. Uday Sankar

has participated in 5 Day Faculty Development program on

**"MOVING TO MASTER SCIENCE IN TECHNOLOGY (MMST: 2020)"**

**Organized by the Department of Computer Science and Engineering**

**From 16-06-2020 To 20-06-2020**

Dr. A. Bindu Madhavi  
COORDINATOR

Dr. A. Patanjali Sastri  
CSE HOD

Dr. K. Nageswara Rao  
PRINCIPAL



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Department of Computer Science and Engineering

## CERTIFICATE OF PARTICIPATION

This is to certify that

Mr./Ms./Dr CH.B.V. Durga

has participated in 5 Day Faculty Development program on

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**Organized by the Department of Computer Science and Engineering**

**From 16-06-2020 To 20-06-2020**

Dr. A. Bindu Madhavi  
COORDINATOR

Dr. A. Patanjali Sastri  
CSE HOD

Dr. K. Nageswara Rao  
PRINCIPAL





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Department of Computer Science and Engineering

## CERTIFICATE OF PARTICIPATION

This is to certify that

Mr./Ms./Dr B. Srikanth Reddy

has participated in 5 Day Faculty Development program on  
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**Organized by the Department of Computer Science and Engineering**  
From 16-06-2020 To 20-06-2020

Dr. A. Bindu Madhavi  
COORDINATOR

Dr. A. Patanjali Sastri  
CSE HOD

Dr. K. Nageswara Rao  
PRINCIPAL





# POTTI SRIRAMULU CHALAVADI MALLIKARJUNARAO COLLEGE OF ENGINEERING & TECHNOLOGY



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Department of Computer Science and Engineering

## CERTIFICATE OF PARTICIPATION

This is to certify that

Mr./Ms./Dr A. Chandra Mouli

has participated in 5 Day Faculty Development program on  
**"MOVING TO MASTER SCIENCE IN TECHNOLOGY (MMST: 2020)"**  
Organized by the Department of Computer Science and Engineering  
From 16-06-2020 To 20-06-2020

Dr. A. Bindu Madhavi  
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