



# POORNIMA

## COLLEGE OF ENGINEERING

Promoted by Shanti Education Society, Affiliated to Rajasthan Technical University & Approved by AICTE

### A Report on 5-days Faculty Development Program

- ♦ **TITLE AND DURATION:** “Recent Advancement in Machine Learning and Artificial Intelligence” from March 16 to 20, 2021.
- ♦ **SPONSORS:** TEQIP-III RTU (ATU) SPONSORED.
- ♦ **SUPPORTERS:** Rajasthan Technical University Kota.
- ♦ **ORGANIZERS:** Department of Computer engineering, Poornima College of Engineering, Jaipur.
- ♦ **OBJECTIVES:**

Machine Learning and Artificial Intelligence has changed the way of our life in past two decade. It has tried to simulate human intelligence through machines in all type of applications. With easy availability of huge amount of data there is good reason to believe that intelligent learning will become necessary ingredient for technological progress.

This FDP aims to provide an opportunity to enhance knowledge about the key concepts and latest advancements in field of machine learning and Artificial Intelligence. The participants will also be able to explore various research opportunities and challenges in the field of machine learning and Artificial Intelligence. The primary objective of this one-week Faculty Development Program (FDP) on Recent Advancement in Machine Learning and Artificial Intelligence Learning was to enrich faculty members of Computer Science stream with preliminaries of artificial intelligence and its modern applications in machine learning and deep learning. The FDP was divided into several modules falling under the umbrella of Artificial Intelligence including Machine Learning, Deep Learning, Data Science, Natural Language Processing and Digital Image Processing. The objective was to address modern trends in the field of Artificial Intelligence with real time problem solving. This FDP focused on hands-on implementation of various algorithms to deliver practical skill to participants.

- ♦ **EXPECTED OUTCOMES:**

- This course is designed to provide an exposure to the fundamentals of Machine Learning Techniques for Healthcare analysis.
- To understand the ability of a computer to learn a specific task from

❖ **BROCHURE / POSTER / LEAFLET / FLYER:**



# POORNIMA

## COLLEGE OF ENGINEERING

5 days Faculty Development Program on  
"Recent Advancement in Machine Learning  
and Artificial Intelligence

March 16 to 20, 2021



**Organized By:**  
**DEPARTMENT OF COMPUTER  
SCIENCE AND ENGINEERING**

PROGRAM SCHEDULE:

**RAJASTHAN TECHNICAL UNIVERSITY, KOTA**

**Poornima College of Engineering**

**TEQIP-III RTU (ATU) SPONSORED**

**Recent Advancement in Machine Learning and Artificial Intelligence**

**Five Days Faculty Development Program**

(March 16-20, 2021)

Dates	10:00-11:00	11:30-12:30	02:00-03:00
<b>16-03-2021</b> <b>Tuesday</b>	Introduction to Machine Learning: <b>Dr. Kusum Kumari Bharti</b> IIITDM, Jabalpur	Swarm and Evolutionary Optimization <b>Dr. Mukesh Saraswat</b> JIIT, Noida	Supervised Learning with Nave Bayes Algorithm <b>Dr. Ashish Tripathi</b> MNIT, Jaipur
<b>17-03-2021</b> <b>Wednesday</b>	Simple Linear Regression <b>Dr. Kusum Kumari Bharti</b> IIITDM, Jabalpur	Introduction to Deep Learning <b>Dr. Mukesh Saraswat</b> JIIT, Noida	Fake Review Detection using Nature Inspired Algorithm <b>Dr. Ashish Tripathi</b> MANIT, Jaipur
<b>18-03-2021</b> <b>Thursday</b>	Logistic Regression <b>Dr. Kusum Kumari Bharti</b> IIITDM, Jabalpur	Convolutional Neural Network <b>Dr. Mukesh Saraswat</b> JIIT, Noida	Bag-of-words for Classification <b>Dr. Raju Pal</b> Jaypee University, Noida
<b>19-03-2021</b> <b>Friday</b>	Regularization and Model Evaluation <b>Dr. Kusum Kumari Bharti</b> IIITDM, Jabalpur	Case Studies of Convolutional Neural Network <b>Dr. Mukesh Saraswat</b> Jaypee University	Image Segmentation using Clustering <b>Dr. Himanshu</b> Jaypee University, Noida
<b>20-03-2021</b> <b>Saturday</b>	Feature Subset Selection using Meta-heuristics <b>Dr. Raju Pal</b> Jaypee University, Noida	Deconvolution and Semantic Segmentation <b>Dr. Mukesh Saraswat</b> JIIT, Noida	Mining Frequent Patterns <b>Dr. Avinash Pandey</b> Jaypee University

## INAUGURAL SESSION:

**RAJASTHAN TECHNICAL UNIVERSITY, KOTA**  
**Poornima College of Engineering**  
**TEQIP-III RTU (ATU) SPONSORED**  
**Recent Advancement in Machine Learning and Artificial Intelligence**  
**Five Days Faculty Development Program**  
(March 16-20, 2021)

**Date: March 16, 2021**

**Time: 9:45 AM-10:10 AM**

**Venue: Online**

### Q-Sheet- Inaugural Session

S. No	Activity	Duration	Time
1.	Welcome of Dignitaries and Introduction of FDP by Mr. Nimish Arvind, Coordinator, PCE <ul style="list-style-type: none"><li>• <b>Prof. (Dr.) R.A. Gupta</b>, Hon'ble Vice Chancellor, RTU Kota (<b>Chief Guest</b>)</li><li>• <b>Prof. (Dr.) Dharendra Mathur</b>, RTU (ATU) TEQIP-III Coordinator (<b>Guest of Honour</b>)</li><li>• <b>Dr. Mukesh Saraswat</b>, Professor, Jaypee Institute of Technology, Noida</li><li>• <b>Dr. Harish Sharma</b>, Professor, RTU Event Coordinator</li><li>• <b>Dr. Mahesh Bundeale</b>, Director &amp; Principal, Poornima College of Engineering, Jaipur</li><li>• <b>Mr. Pankaj Dhemla</b>, Vice Principal, Poornima College of Engineering, Jaipur</li><li>• <b>Dr. Surendra Kumar Yadav</b>, HOD, CSE, Poornima College of Engineering</li></ul>	10 Min	9:45AM -9:55AM
2.	Welcome Address by <b>Dr. Mahesh Bundeale</b> , Director & Principal, Poornima College of Engineering, Jaipur	05 Min	9:55AM -10:00AM
3.	Introduction of Guest of Honour & Address by Guest of Honour <b>Dr. Mukesh Saraswat</b> , Jaypee Institute of Technology, Noida	05 Min	10:00AM -10:05AM
5	Vote of Thanks by <b>Dr. Surendra Kumar Yadav</b> , HOD, CSE, PCE	05 Min	10:05AM -10:10AM

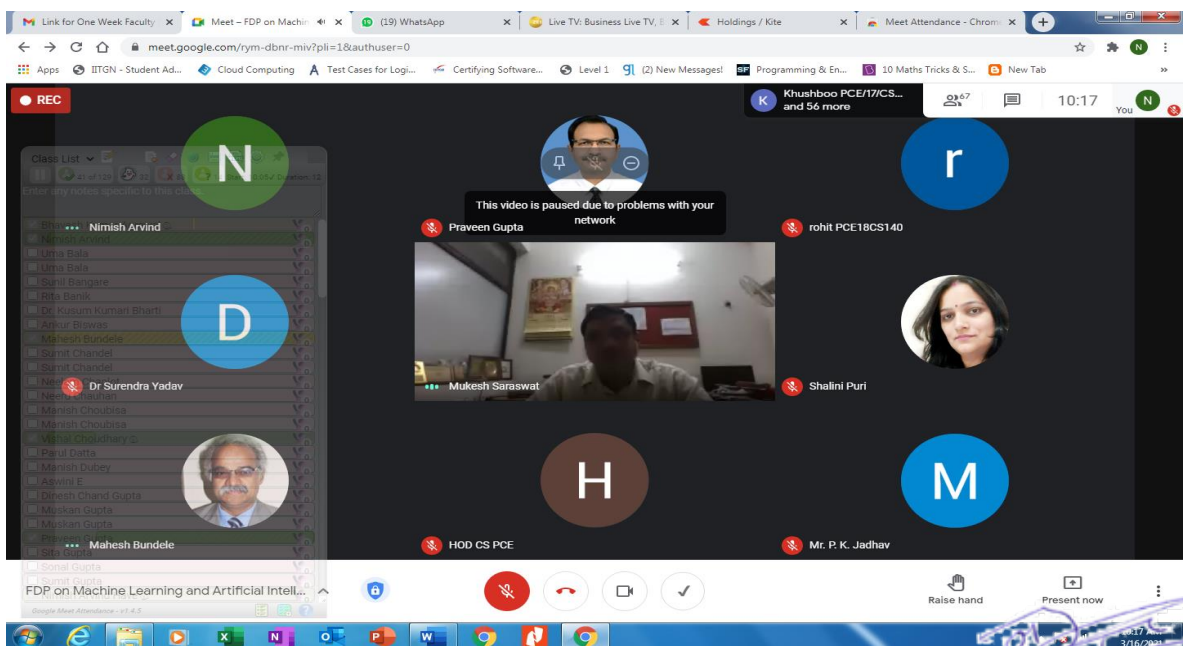
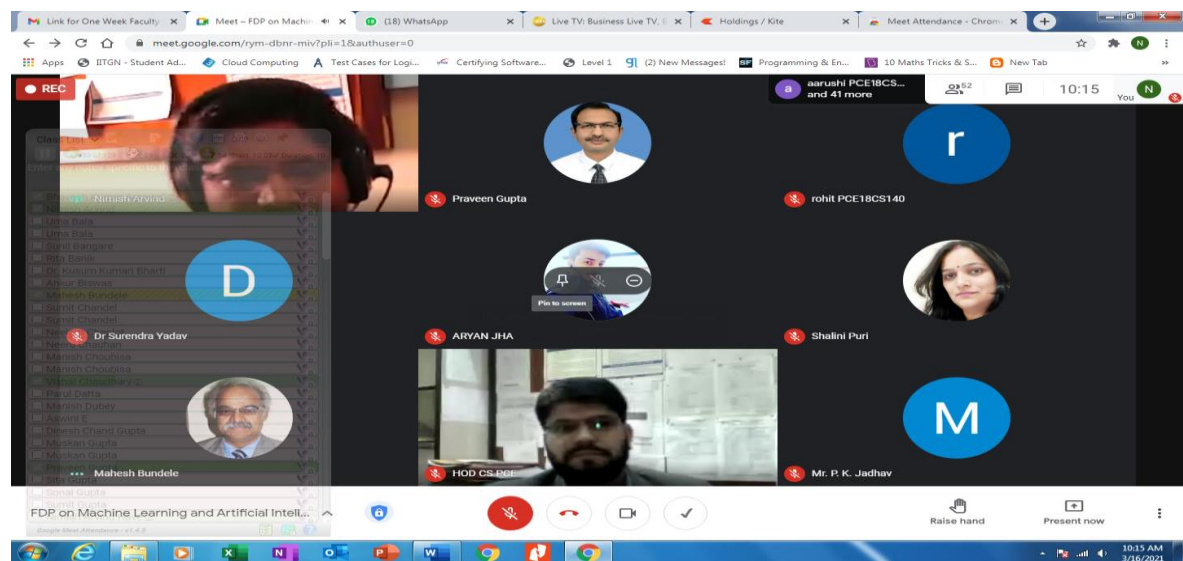
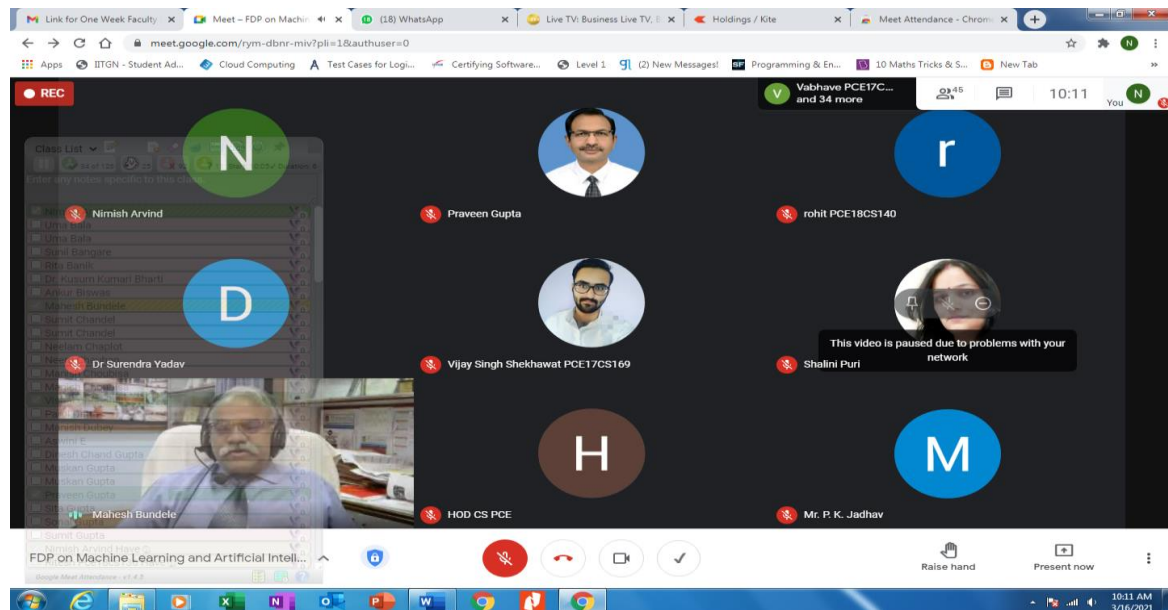
## DETAILS OF RESOURCE PERSONS:

- Dr. Kusum Kumari Bharti IIITDM, Jabalpur.
- Dr. Raju Pal Jaypee University, Noida.
- Dr. Mukesh Saraswat IIIT, Noida.
- Dr. Ashish Tripathi MNIT, Jaipur
- Dr. Raju Pal Jaypee University, Noida
- Dr. Himanshu Jaypee University, Noida
- Dr. Avinash Pandey Jaypee University

  
**Dr. Mahesh Bundeale**  
B.E., M.E., Ph.D.  
Director  
Poornima College of Engineering  
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## GLIPMSES OF CONDUCTION:



## CONTENT DELIVERY / PRACTICAL SESSIONS:

- Introduction to Machine Learning
- Supervised and unsupervised machine learning
- Prediction using Linear Regression
- Prediction using Logistic regression
- Customer churn prediction using
- Decision tree & Random Forest
- Auto mpg data set analysis using ANN Regression
- Predict Titanic Survivors using Artificial
- Neural Network classification
- Machine learning using Python

## VALEDICTORY SESSIONS:

S. No	Activity	Duration	Time
1.	Welcome of Dignitaries and Report of FDP by <b>Mr. Nimish Arvind, Host Institute Coordinator, PCE</b> <ul style="list-style-type: none"><li>• <b>Mr. Pankaj Dhemla</b>, Vice Principal, Poornima College of Engineering, Jaipur</li><li>• <b>Dr. Harish Sharma</b>, Professor, RTU Event Coordinator</li><li>• <b>Dr. Surendra Kumar Yadav</b>, HOD, CSE, Poornima College of Engineering</li></ul>	05 Min	3:00PM - 3:05PM
2.	Welcome Address by <b>Mr. Pankaj Dhemla</b> , Vice Principal, Poornima College of Engineering, Jaipur	05Min	3:05PM - 3:10PM
3.	Feedback by the Participants	10 Min	3:10PM - 3:20PM
4.	Vote of Thanks by <b>Mr. Rajkumar Jain</b> , Assistant Professor, CSE, PCE	05 Min	3:20PM - 3:25PM

## LIST OF PARTICIPANTS:

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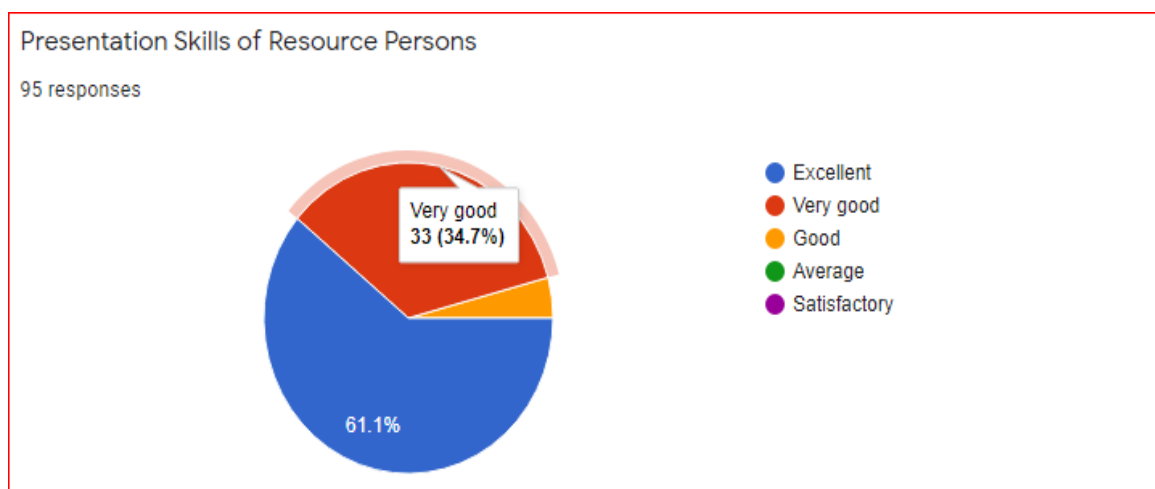
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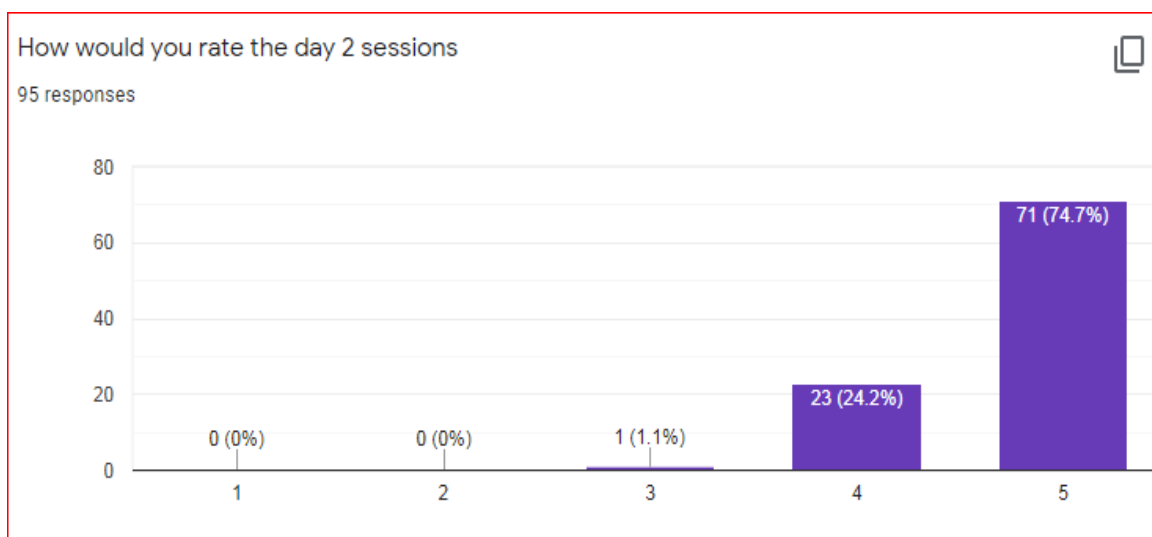
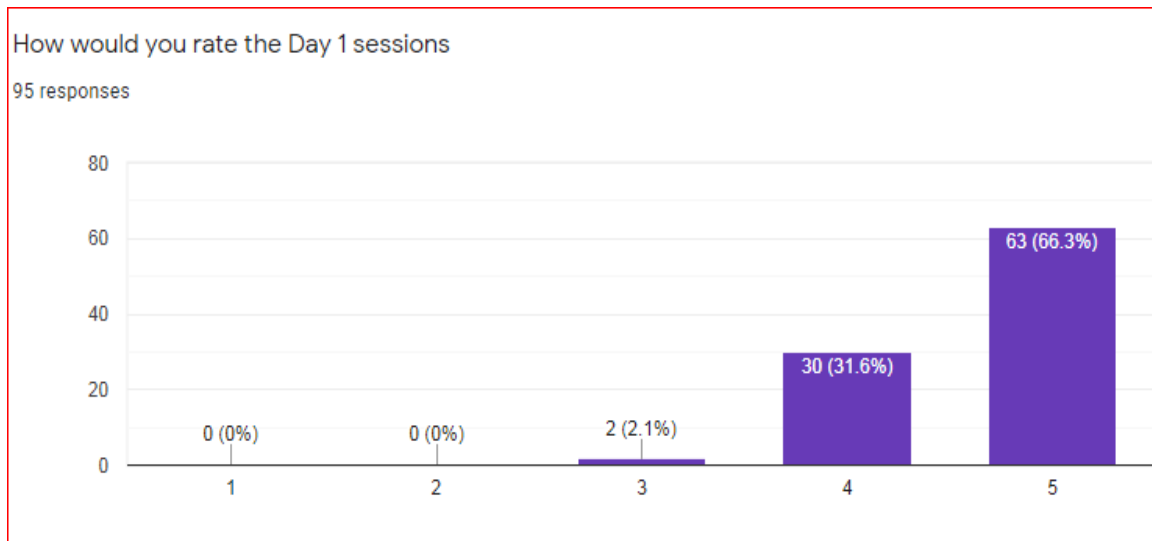
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## FEEDBACK ANALYSIS:

Oral feedback and views shared by the participants revealed that the Group Discussion has successfully fulfilled the objectives of the event. All the participants in their oral feedback has given positive remarks in all respects and shown their satisfaction over all the arrangements and the time management.

### Feedback Online Mode:





#### ♦ SWOT ANALYSIS:

- It promotes student-centered learning and collaboration
- Lessons and Contents are more accessible
- It can more efficient
- It relies on preparation and trust
- There is significant work on the front end
- This is more about proper planning and includes any iteration required for the purpose of highly building highly scalable software.

#### ♦ BUDGET & ACTUALS: N/A