



POORNIMA

COLLEGE OF ENGINEERING

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

A Report on one week Faculty Development Program

- ✦ **TITLE AND DURATION:** “Machine Learning & Deep Learning Techniques with its Applications” from August 18-22, 2020.
- ✦ **SUPPORTERS:** IEEE Rajasthan Sub Section.
- ✦ **ORGANIZERS:** Electrical Engineering Department, Poornima College of Engineering, Jaipur.
- ✦ **BROCHURE / POSTER / LEAFLET / FLYER:**

IEEE EXECUTIVE COMMITTEE

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Mr. Mahesh Kumar Meena	Assistant Professor, PCE
Mr. Manish Sharma	Assistant Professor, PCE
Mr. Mayank Sharma	Assistant Professor, PCE

Resource Persons

The Resource Persons for the FDP will be Eminent Professors and Experts in the area of Machine Learning from IITs, IITs, NITs, Industry and other Esteemed Institutions.

Eligibility

This course is open to all the Faculty Members of AICTE Approved Institutions, Research Scholars, and Persons working in R&D organizations or Industry. Number of participants for FDP are limited. All the sessions will be conducted online only.

Registration and Fee Particulars

- There is no registration fee for faculty from AICTE approved Institutions, Participants from Industry, and Research Scholars.
- Registration for the program may be done by filling the Registration Form online, Reg. Link: <https://tinyurl.com/y3be37jn>

IMPORTANT DATES

Last date of receipt of application	August 14, 2020
Intimation of selection by mail	August 16, 2020
FDP duration	August 18-22, 2020

Correspondence

Dr. Tarun Varshney
 Professor, Department of Electrical Engineering
 Poornima College of Engineering
 ISI-6, RIICO Institutional Area, Sitapura, Jaipur, Rajasthan 302022
 ✉ : tarun.varshney@poornima.org
 ☎ : +91-9412143367

Venue

Department of Electrical Engineering
Poornima College of Engineering
 ISI-6, RIICO Institutional Area, Sitapura, Jaipur, Rajasthan 302022
www.pce.poornima.org

TEQIP-III SPONSORED
One Week FDP
ON
Machine Learning & Deep Learning
Techniques with its Applications
August 18-22, 2020

In Association with

IEEE
RAJASTHAN SUB SECTION

Organized by

Rajasthan Technical University, Kota &
POORNIMA
COLLEGE OF ENGINEERING
 Affiliated to RTU, Kota • Approved by AICTE & UGC under 2013 • Accredited by NBA

Dr. Mahesh Bunde
 B.E., M.E., Ph.D.
 Director
 Poornima College of Engineering
 ISI-6, RIICO Institutional Area
 Sitapura, JAIPUR

ABOUT TEQIP-III

The Project, third phase of Technical Education Quality Improvement Programme (referred to as TEQIP-III) is fully integrated with the Twelfth Five-year Plan objectives for Technical Education as a key component for improving the quality of Engineering Education in existing institutions with a special consideration for Low Income States and Special Category States and support to strengthen few affiliated technical universities to improve their policy, academic and management practices.

RAJASTHAN TECHNICAL UNIVERSITY

Rajasthan Technical University (RTU) is located in Kota in the state of Rajasthan. It was established in 2006 by the Government of Rajasthan. The University currently affiliates about 129 Engineering Colleges, 4 B.Arch., 41 MCA Colleges, 95 MBA Colleges, 44 M.Tech. Colleges and 3 Hotel Management and Catering Institutes. The University aims to provide quality technical education which may help Rajasthan in its technical development and will boost technical environment in the country.

POORNIMA COLLEGE OF ENGINEERING

Poornima College of Engineering (PCE), established as a brand of technical education in the year 2000, has its own glorious legacy of leading the young engineers to the mammoth sky of success. Its accomplishments forecast its journey through the hardships and its triumph over them one after another. PCE left no stone unturned since its establishment in turning the glorious vision into unbelievable reality providing the platform for knowledge and research and their practical implementations in different engineering professional prospects. Glorious glimpses of PCE:

- Highly recognized and renowned affiliated technical institution all over Rajasthan with built up area more than 3.5 lacs square feet
- Affiliated to RTU, Kota & approved by AICTE, New Delhi
- The most preferred NBA Accredited Engineering College with running of six specializations of Engineering at UG Level (CSE, ECE, EE, ME, IT, CIV) and two at PG level (CS & VLSI)
- The only institution permitted by RTU to admit FN/PIO/Gulf students & designated as centre of excellence by IBM

Department of Electrical Engineering

The Journey of Department of Electrical Engineering was started in year 2000 with Poornima College of Engineering, Jaipur. The department has its major share in the entire PE with the total intake of more than 600 students. We are providing all the amenities of infrastructure related to knowledge, research, experiments and training of multiple professions.

The department has organized various workshops, seminars, expert lectures in this session i.e. workshop on PLC, SCADA, MATLAB, Renewable Energy, Industrial Automation, etc. The department has been taking initiatives for versatile enhancement of the students through technical, cultural and sports events since the establishment. Most of our final year students have been placed in Infosys, Capgemini India Ltd., FACE, Gram Power, Adani Power, KSTPS, Pinnacle Infotech solutions, etc.

COURSE CONTENTS

Machine learning (ML) is the scientific study of algorithms and statistical models that computer systems use to perform a specific task without using explicit instructions, relying on patterns and inference instead. The purpose of machine learning is to discover patterns in the data and then make predictions based on often complex patterns to answer business questions, detect and analyse trends and help solve problems. Machine learning is effectively a method of data analysis that works by automating the process of building data models.

Deep learning (DL) is part of a broader family of machine learning methods based on learning data representations, as opposed to task-specific algorithms. Deep learning is a key technology behind driverless cars, enabling them to recognize a stop sign, or to distinguish a pedestrian from a lamppost. It is the key to voice control in consumer devices like phones, tablets, TVs, and hands-free speakers. It is the buzz word of today's Artificial Intelligence (AI) industry.

Topics to be covered

- Introduction to ML and DL
- Architectures
- Naive Bayes
- Convolution neural network
- TLBO and its variant
- Transfer learning models
- Difference between ML and DL
- Algorithms
- Binary Genetic Algorithm
- Segmentation
- Classification
- DL in image processing & electric utility.

Objectives of the FDP

- To equip teachers with skills and knowledge in the field of machine learning and deep learning, this is essential for inculcating learning values in students and guiding & monitoring their progress towards their career.
- To prepare the faculties for creating interest towards the field of machine learning and deep learning and also familiarize the students with the practical aspects of this field and gradually teach them the industrial usage of machine learning and deep learning for various applications.

FDP COMMITTEE

CHIEF PATRON

Prof. (Dr.) R. A. Gupta
Hon'ble Vice Chancellor, RTU Kota

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Principal & Director, Poornima College of Engineering

Dr. Rekha Nair
Vice-Principal, Poornima College of Engineering

RTU (ATU) TEQIP-III COORDINATOR

Prof. (Dr.) Dharendra Mathur

RTU EVENT COORDINATOR

Mr. Vikash Tripathi

RTU (ATU) TEQIP-III COMMITTEE

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Prof. D. K. Sambariya (Nodal Officer Procurement)
Dr. S. D. Purohit (Nodal Officer Finance)
Dr. Irum Alvi (Conductance)
Mr. Santosh Sharma (Expert Lecture)
Mr. Anshul Bansal (GATE & Induction)
Mr. Dinesh Kumar (Workshop)

HOST INSTITUTE COORDINATORS

Dr. Tarun Varshney Professor, EE, PCE
Dr. Virendra Sangtani Professor & HOD, EE, PCE

PROGRAM SCHEDULE:

Programme Outline	
Tuesday, Day 1: 18 August, 2020	
10.00 am – 10.30 am	Inaugural Function Prof. R. A. Gupta, Hon'ble Vice Chancellor, RTU Kota (Chief Guest) Prof. Rahul Banerjee, Director, LNMIIT Jaipur (Guest of Honour) Dr. Mahesh Bundeale, Director-Principal, Poornima College of Engineering Mr. Viaksh Tripathi, RTU event Coordinator Dr. Virendra Sangtani, HOD, EED Dr. Tarun Varshney, Coordinator
10.30 am -11.30 am	Session-1 Topic: Apply Data Science Techniques to Cyber Security Resource Person: Mr. Divyanshu Verma, Sr. Manager, Intel Technologies Bangalore
11.30 am - 1.00 pm	Session-2 Topic: Introduction to Neural Network and Deep learning Resource Person: Dr. Jeny Rajan, Assistant Professor, ECD, NIT, Surathkal
Programme Outline	
Wednesday, Day 2: 19 August, 2020	
9.30 am -10.30 am	Session-3 Topic: Neural Networks and Machine Learning


Dr. Mahesh Bundeale
 B.E., M.E., Ph.D.
 Director
 Poornima College of Engineering
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	Resource Person: Dr.Nitin Singh, Associate Professor, EED, MNNIT, Allahabad
10.30 am -11.30 am	Session-4 Topic: Mathematical framework behind Machine Learning Resource Person: Dr.Anupam Yadav, Assistant Professor Department of Mathematics, NIT Jalandhar
11.30 am – 12.00 Noon	BREAK
12.00 - 1.00 pm	Session-5 Topic: Naive Bayes Algorithm Resource Person: Dr. KK Mishra, Assistant Professor, CSE, MNNIT, Allahabad
Programme Outline	
Thursday, Day 3: 20 August, 2020	
9.30 am -11.00 am	Session-6 Topic: TLBO and its variant with its application in Segmentation Resource Person: Dr.VinayPratap Singh, Assistant Professor, EED, MNIT Jaipur
11.00 am -11.30 am	BREAK
11.30 am - 1.00 pm	Session-7 Topic: Binary GA Classification Resource Person: Dr. KK Mishra, Assistant Professor, CSE, MNNIT, Allahabad
Programme Outline	
Friday, Day 4: 21 August, 2020	
9.30 am -11.00 am	Session-8 Topic: Deep learning Architectures for Segmentation of Histopathology Medical Images Resource Person: Dr.ShyamLal, Assistant Professor, ECD, NIT, Surathkal
11.00 am -11.30 am	BREAK
11.30 am - 1.00 pm	Session-9 Topic: DE and Binary DE with its application in Machine learning Resource Person: Dr.VinayPratap Singh, Assistant Professor, EED, MNIT Jaipur
Programme Outline	
Saturday, Day 5: 22 August, 2020	
9.30 am -11.00 am	Session-10 Topic: Clustering and Classification (Lab session by using Python) Resource Person: Lt (Dr.) Divya Kumar, Assistant Professor, CSE, MNNIT, Allahabad
11.00 am -11.30 am	BREAK
11.30 am - 12.30 pm	Session-11 Topic: Application of ML/DL in

	Utility Resource Person: Dr. B. Satish, Utilities Lead Consultant, Infosys Limited
12.30 pm –1.00 pm	Closing & Feedback Session

DETAILS OF RESOURCE PERSONS:

Dr.K.K. Mishra

Assistant Professor, CSE, MNNIT, Allahabad ,kkm@mnnit.ac.in

Dr. K. K. Mishra is presently working as Assistant Professor in Department of Computer Science and Engineering, MNNIT Allahabad, Prayagraj. He has successfully organized around 6 IEEE conferences in India (ICCCT Series) as a conference secretary and worked as a program chair for many other conferences. He has worked as PC members for many conferences in India and abroad and has successfully organized some special issues in highly index journals. He is a regular reviewer of Journal of Supercomputing (Springer), Applied Intelligence, Applied Soft Computing, IEEE Transaction on Cybernetics, IEEE System Journal, Neural computing and application and IETE journals. In addition to it, he has reviewed many publications for SCI and Scopus indexed journal.



Mr. Divyanshu Verma

Sr. Manager, Intel Technologies ,Bangalore, divyanshuv@gmail.com

A Senior Technology Leader with more than 20 years of experience in Cyber Security, Networking, IoT security, embedded system development, Secured embedded Linux, Kernel Hardening, secure hypervisor, Hardware and software security compliance and standards, SDL security standards and processes, x86, ARM and MIPS architecture.

Divyanshu has contributed towards the success of some of most prestigious organizations such as Intel, Broadcom, Ericsson, Dell RnD, Indian Defense organizations, GE etc.

He has worked closely with Presidents of Business units on various strategic initiatives such as, technical due diligence for prospective acquisition, and Post merger integration

Divyanshu worked 4 years in United States and Europe and led multi-cultural teams in ge locations such as south East Asia, Israel, Europe and United States



Dr. Nitin Singh

Associate Professor, EED, MNNIT, Allahabad, nitins@mnnit.ac.in

Dr. Nitin Singh is currently working as an Associate Professor in Department of Electrical Engineering, MNNIT Allahabad, Prayagraj, India. He is an alumnus of Motilal Nehru National Institute of Technology Allahabad, India. His primary areas of research are Power System Planning, Electricity markets, Artificial Intelligence, implementation of optimization algorithms and machine learning techniques for power system optimization. He has published more than 45 publications in International Journals and in Proceedings of International Conferences of repute. He is serving as reviewer of several Scopus, SCI and E-SCI-indexed journals. He has organized several international conferences under the banner of IEEE and Springer. He is Member of IEEE, member of IEEE Computational Intelligence Society, Power Energy Society, and Industrial Application society. He is currently serving as Secretary, IEEE Joint Chapter of Industrial Electronics/ Power Electronics /Control System at MNNIT Allahabad.



Dr. Shyam Lal

Assistant Professor, ECD, NIT ,Surathkal, shyamfec@nitk.edu.in; shyam.mtec@gmail.com

ShyamLal received Ph.D. degree in Digital Image Processing from Department of Electronics & Communication Engineering, Birla Institute of Technology, Mesra, Ranchi (Jharkhand), India in 2013. Currently; he is working as Assistant Professor in the department of Electronics & Communication Engineering, National Institute of Technology Karnataka, Surathkal, Mangalore (Karnataka), India since 18th December 2018.

2013. He has more than 17 years of Teaching & Research experience. He has supervised 04 Ph.D. students and currently 04 Ph.D. students are working under his supervision in the area of Medical and Remote sensing Image Processing and he has completed 01 R&D project funded by SERB-DST and currently executing 03 R&D projects funded by Govt. of India. He has published more than 70 research papers in the area of Digital Image Processing, Medical Image Processing and remote sensing at International/National Journals & Conferences. He has received Early Career Research Award (Young Scientist) in 2017 from Science Engineering and Research Board,

India and Young Faculty Research Fellowship Research grant in 2019 under Visvesvaraya PhD Scheme for Electronics & IT, Digital India Innovation, MeitY, Govt of India. He has been Guest Editor of IJSISE, Inderscience Publishers, Editorial member of Open Access Journal of Biomedical Engineering and its Applications, Lupine Publishers, USA. He is Senior Member of IEEE, life member of ISTE, New Delhi, India, Life member of IAENG, Hong Kong and Life member of IACSIT, Singapore. His area of interest includes Digital Image Processing, Histopathology Image Processing, Medical Image Processing, Remote Sensing Image Processing, Machine and Deep Learning with Applications, and Optimization Algorithms with application in Image Processing.



Dr. Vinay Pratap Singh

Assistant Professor, EED, MNIT Jaipur, vinay.ee@mnit.ac.in

Research Interest

Control Systems, Applications of control to power systems and power electronics, Optimization, Artificial intelligence, Power system optimization, Image processing, Soft computing techniques, Neural networks, fuzzy logic, deep learning.



Dr. Satish Balantrapu

Utility leader consultant, Infosys Limited, findsatish@gmail.com

Dr. B. Satish is a Lead Consultant within the Utilities division of Infosys Ltd. He has over 20 years of experience in the Electric Utilities domain and is a core member of the Smart Grid Practice. He has been involved in various implementation projects related to Smart Grid and Distributed Energy Resources. His interests lie in the application of AI/ML techniques in the Electric Utilities domain. He obtained his PhD on 'Artificial Intelligence techniques for electric load forecasting' from IIIT, Hyderabad and published around 25 papers in International Journals & Conferences including IEEE & Elsevier.



Dr. Divya Kumar

Assistant Professor, CSE, MNNIT, Allahabad, divyak@mnnit.ac.in

Dr. Divya Kumar, is assistant Professor, MNNIT Allahabad. He has completed his M.Tech & Ph.D. from MNNIT Allahabad. He worked as a Senior Software Developer in Oracle India Ltd. He has published more than 20 research papers in national

reputed journals. He has completed many government projects and more than 15 thesis supervised.



Dr. Jeny Rajan

Assistant Professor, Dept. of Computer Science and Engg, NIT, Surathkal,
jenyrajannitk.edu.in, jenyrajan@gmail.com

JenyRajan received his PhD from the University of Antwerp (Vision Lab) Belgium in 2012. Currently he is working as an Asst. Professor at the Dept. of Computer Science and Engineering at the National Institute of Technology Karnataka (NITK), Surathkal (Mangalore), India. His research interests include image processing, deep learning and medical image analysis. He has published around 60 papers in reputed journals and conferences. He is a recipient of Young System Scientist Award from System Society of India (SSI), 2016.



Dr. Anupam Yadav

Dr. Anupam Yadav, Assistant Professor, Department of Mathematics, Dr. B.R. Ambedkar National Institute of Technology Jalandhar, India. His research area includes numerical optimization, soft computing and artificial intelligence, he has more than ten years research experience in the areas of soft computing and optimization. Dr. Yadav has done PhD in soft computing from Indian Institute of Technology Roorkee and he worked as a research professor at Korea University. He has published more than twenty five research articles in journals of international repute, has published more than fifteen research articles in conference proceedings. Dr. Yadav, has authored a text book entitled "An introduction to neural network methods for differential equations. He has edited three books which are published by AISC, Springer Series. Dr. Yadav was General Chair, Convener and member of steering committee of several international conferences. He is an Associate Editor in the journal of the experimental and theoretical artificial intelligence. Dr. Yadav is a member of various research societies.



GLIMPSES OF CONDUCTION:

Dr. Mahesh Bunde
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, FIICO Institutional Area
Sitapura, JAIPUR

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Participants (74)

Panelists (5) Attendees (69)

Search

- GM Garima Mathur
- AR Aashish Rastogi
- AK AMIT KUMAR JHA
- AS Asha S
- AP Atrakesh Pandey
- AG ayush goyal
- BD BHARGAVI DUVVURI
- BS Brijraj Singh Solanki
- CK Charu Kavadia
- DD DEEPTI DAVE
- DK Divyansh Kumar

Chat

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Phishing Detection

Google

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Important: Your Password will expire in 1 day(s)

MyUniversity

Dear network user,

This email is meant to inform you that your MyUniversity network password will expire in 24 hours. Please follow the link below to update your password [myuniversity.edu/renewal](#)

Thank you MyUniversity Network Security Staff

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Participants (85)

Panelists (5) Attendees (80)

Search

- MM Minati Mohapatra
- ML Mr. Laxmi Narayan Balai
- MD Ms. Deepika Chauhan
- MC mukesh chand
- NR NALLAJONNALA RAMANAIDU
- NR NALLAJONNALA RAMANAIDU
- NK Navneet Kumar Verma
- NS Neha Sharma
- NS Neha Sharma
- NB Nikhil Bhati
- NK Niles Kulkarni
- PP Padmaja Pulicherla

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Single neuron with linear activation function

x_1 w_1 x_2 w_2

$\delta = x_1 w_1 + x_2 w_2 + b$

$y = f(\delta)$

$E = \frac{1}{2} (t - y)^2$

$t = \text{target output}$

$y = a$

$w_1 = w_1 - \alpha \frac{\partial E}{\partial w_1}$

$\frac{\partial E}{\partial w_1} = \frac{\partial E}{\partial y} \frac{\partial y}{\partial a} \frac{\partial a}{\partial w_1}$

$\frac{\partial E}{\partial w_1} = \frac{\partial}{\partial y} \left(\frac{1}{2} (t - y)^2 \right) \frac{\partial y}{\partial a} \frac{\partial a}{\partial w_1}$

$\frac{\partial E}{\partial w_1} = -(t - y) x_1$

$\frac{\partial y}{\partial a} = 1$

$\frac{\partial a}{\partial w_1} = \frac{\partial (x_1 w_1 + x_2 w_2 + b)}{\partial w_1} = x_1$

$w_1 = w_1 + \alpha (t - y) x_1$

$w_2 = w_2 + \alpha (t - y) x_2$

$b = b + \alpha (t - y)$

$w_{j,i} = w_{j,i} + \alpha (t_j - y_j) x_{i,j}$

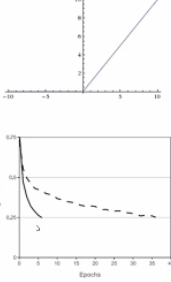
$w_{j,i}$ = weight of i^{th} input of j^{th} neuron

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Dr. Jency Rajan,...

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- ReLU activation function was first introduced to a dynamical network by Hahnloser et al. in 2000 with strong biological motivations and mathematical justifications.
- It has been demonstrated for the first time in 2011 to enable better training of deeper networks, compared to the widely used activation functions prior to 2011.
- It's sparsely activated.
- ReLU neurons can sometimes be pushed into states in which they become inactive for essentially all inputs.
- In this state, no gradients flow backward through the neuron, and so the neuron becomes stuck in a perpetually inactive state and "dies". This is a form of the vanishing gradient problem.



Participants (81)

Panelists (4) Attendees (77)

Search

- NP Narendran P
- NK Navneet Kumar Verma
- NS NEENU SEBASTIAN
- NS Neha Sharma
- NS Neha Sharma
- NB Nikhil Bhati
- NK Nilesh Kulkarni
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- RG Rajeshwari Gundla
- RS Ramya Srikanteswara

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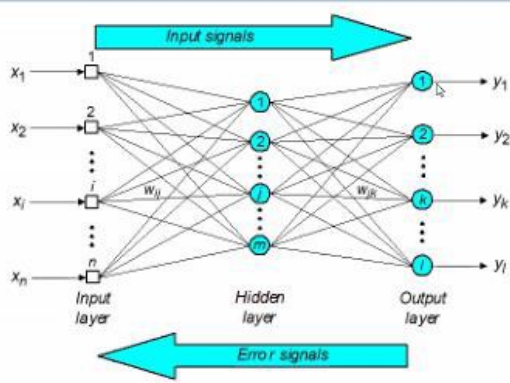
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Dr. Tarun Varsh...

Rahul Singh



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Three layer BPNN



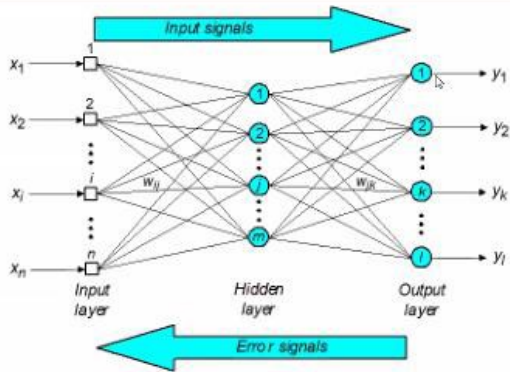
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Dr. Tarun Varsh...  


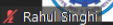
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Three layer BPNN



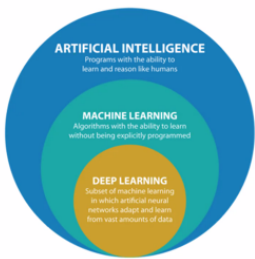
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Dr. Tarun Varsh...  

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AI Vs ML Vs DL







Artificial Intelligence
Any technique which enables to mimic human brain



Machine Learning
Subset of AI techniques which use statistical methods to enable machines to improve with experiences

Deep Learning
Subset of ML which uses the multi-layered neural networks for computation

Participants (85)
Panelists (3) Attendees (82)

DT Dr. Tarun Varshney, Poorni... (Me)  

Rahul Singhi (Host)  

DA Dr. Anupam Yadav  

Invite Unmute Me Raise Hand

Chat

From Sudarvizi D to All panelists and attendees:
This is sudarvizi from KPR Dr.Tarun sir, im attenting the session through my laptop today and yesterday I attented via my android device.
as you asked to register our presence I have pinged here sir. thank you.

To: All panelists

Type message here...

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Zoom Webinar

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View Options

Dr. Tarun Varsh...

Rahul Singh

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Recursive use of Activation Function

$$F(X) = \sigma(W_3\sigma(W_2\sigma(WX + b) + b_2) + b_3)$$

Recursive use of the activation function creates the layers

The dimension of weight matrix in every operation of the activation function determines the number of neurons

The choice of these two totally depends upon the user

Participants (94)

Panelists (3) Attendees (91)

DT Dr. Tarun Varshney, Poorni... (Me) [Microphone icon]

Rahul Singh (Host) [Microphone icon]

DA Dr. Anupam Yadav [Microphone icon]

Invite Unmute Me Raise Hand

Chat

not able to enter present in the sheet
sheet opened
asking another editing app
that will be installing now
so I see the sheet but not able to enter
present

From Ujjal Dey to All panelists:
the link is working now

To: All panelists and attendees

Type message here...

Unmute Start Video Participants 94 Share Screen More Leave

Zoom Webinar

Dr. Tarun Varsh...

Dr. K.K. Mishra...

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Is it guaranteed to obtain optimal solution

No GA does not provide any guarantee to produce optimal solution.

Moreover minimization problems is converted in to maximization problem before applying GA (either by dividing function from 1 or by adding - before it)

Chat

From Lakshmi pathi V to All panelists:
ok sir

From Kaustubh Kalkonde to All panelists:
please start slide show

From Me to All panelists and attendees:
<https://docs.google.com/spreadsheets/d/1OpV04uRRaUceBzaFM0vXKKfTjegVWCcQKX0qLXp5rPk/edit?usp=sharing>
attendance sheet for session3
you can edit for only 19 August, Session 3

From Venkatesh T to All panelists:
kindly share the attendance sheet

From Me to All panelists and attendees:
<https://docs.google.com/spreadsheets/d/1OpV04uRRaUceBzaFM0vXKKfTjegVWCcQKX0qLXp5rPk/edit?usp=sharing>

From Dr Balajee ma... to All panelists and attendees:
sir i have attended yesterday and today session-2 also, but i do not know about this attendance, what can i do?

To: All panelists and attendees

Type message here...

The screenshot shows a Zoom Webinar in progress. The main window displays a presentation slide titled "Hypothesis". The slide content reads: "Sometimes identification of function is not simple. If only input and output data is given to us. We can apply mathematical models and create multiple relations (in form of functions). From these functions, we have to pick the best function. The function produced by different models are called as hypothesis and best function is called best hypothesis." The slide is presented by Dr. K.K. Mishra, Assistant Professor. The interface shows 56 participants, with 3 panelists and 53 attendees. The chat window on the right shows messages from R. Prasanthi, Ujjal Dey, and the host.

Hypothesis

Sometimes identification of function is not simple. If only input and output data is given to us. We can apply mathematical models and create multiple relations (in form of functions). From these functions, we have to pick the best function.

The function produced by different models are called as hypothesis and best function is called best hypothesis.

Participants (56)

Panelists (3) Attendees (53)

Search

AD A. Devi arumugam

AA ALAA ALDIN GHAZAL

AK AMIT KUMAR JHA

AS Asha S

Chat

From R. Prasanthi@Punithavathi R... to All panelists: attendance pls

From Ujjal Dey to All panelists: sir no relevant slide visible?

From Me to All panelists and attendees: sr 202 done

To: All panelists and attendees

Type message here...

The screenshot shows a Zoom Webinar in progress. The main window displays a presentation slide titled "Basics of Optimization". The slide content includes: "Suppose, $J = f(X) = x_1^2 + x_2^2 + x_3^2$ (1.1). Our aim is to minimize J. $\frac{\partial J}{\partial x_1} = 2x_1$; $\frac{\partial J}{\partial x_2} = 2x_2$; $\frac{\partial J}{\partial x_3} = 2x_3$ (1.2). $\frac{\partial^2 J}{\partial x_1^2} = 2$; $\frac{\partial^2 J}{\partial x_2^2} = 2$; $\frac{\partial^2 J}{\partial x_3^2} = 2$ (1.3)." The slide is presented by Dr. Vinay Pratap Singh, Assistant Professor. The interface shows 48 participants, with 3 panelists and 45 attendees. The chat window on the right shows messages from B. J. D. Kalyani, Dr. S. Sriniva, and Kaustubh Kalkonde.

Basics of Optimization

Suppose,

$$J = f(X) = x_1^2 + x_2^2 + x_3^2 \quad (1.1)$$

Our aim is to minimize J,

$$\frac{\partial J}{\partial x_1} = 2x_1; \quad \frac{\partial J}{\partial x_2} = 2x_2; \quad \frac{\partial J}{\partial x_3} = 2x_3 \quad (1.2)$$

$$\frac{\partial^2 J}{\partial x_1^2} = 2; \quad \frac{\partial^2 J}{\partial x_2^2} = 2; \quad \frac{\partial^2 J}{\partial x_3^2} = 2. \quad (1.3)$$

Participants (48)

Panelists (3) Attendees (45)

DT Dr. Tarun Varshney, Poorni... (Me)

Rahul Singhi (Host)

DV Dr. Vinay Pratap Singh, Assist...

Invite Mute Me Raise Hand

Chat

From B J D Kalyani to All panelists: Good morning all

From Dr S SRINIVA... to All panelists and attendees: Good morning to all

From Kaustubh Kalkonde to All panelists: good morning

To: All panelists and attendees

Type message here...

Zoom Webinar

Dr. Tarun Varsh... Dr. Vinay Pratap...

Participants (76)

Panelists (3) Attendees (73)

Search

AD A. Devi arumugam
AR Aashish Rastogi
AK AMIT KUMAR JHA
AS Asha S
R.D. Kishor

Chat

From Me to All panelists:
Good Morning Sir

From Me to All panelists:
Good morning all of You

From LAXMI NARAYAN BALAI to All panelists:
Good Morning All

From Me to All panelists:
hopefully you are enjoying the FDP

To: All panelists and attendees

Type message here...

Detailed steps of DE algorithm

Step 3:

Crossover

Generate a trail vector for every candidate of the population by mixing the mutant vector with target vector.

The target vector is generated as:

$$T_{i,j} = \begin{cases} M_{i,j} & \text{if } rand_j(0,1) \leq CR \text{ or } j = randi(1,C) \\ X_{i,j} & \text{otherwise} \end{cases} \quad (1.5)$$

where $CR, CR \in (0,2)$, is crossover rate that is usually taken as 0.5.

Zoom Webinar

You are viewing Dr. K.K. Mishra, Assistant Pro... 's screen

Dr. Tarun Varsh... Dr. K.K. Mishra,...

Recording LIVE on YouTube

Participants (69)

Panelists (3) Attendees (66)

Search

DO Dr. Omprakash Sikhwal
DS Dr. Sandeep Gupta
DK Dr. Balamurugan Krishnan
GS G Srilakshmi
G.S. Srilakshmi

Chat

yes sir

From Me to All panelists:
kindly type yr email id too
type email id too
new tab is created

From R.Prasanthi@Punithavathi R... to All panelists:
dear audio and video sir

To: All panelists

Type message here...

What is naïve Bayes?

- It is a probabilistic model used for function approximation problem.
- it works on probability theory.
- The idea is based on conditional probability and Bayes theorem
- It is called as naïve because it creates a model by assuming that all input variables are independent.

Mute Start Video Participants 69 Share Screen More Leave

Zoom Webinar

Dr. Tarun Varsh... Dr. K.K. Mishra...

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Example

- Tossing a coin produce a random outcome.
- probability theory can help in understanding such problems.
- probability theory works on previous data which have for prediction.
- The collection of all possible outcomes of a event is called as sample space.
- A subset of sample space is known as event.
- whenever we are doing a experiment, we are interested in the outcome of an event.

Participants (75)

Panelists (3) Attendees (72)

Search

- DS Dr. Sandeep Gupta
- DK Dr.Ashok Kumar Kajla
- DK Dr.Balamurugan Krishnan
- GS G Sriakshmi
- GM Garima Mathur
- GS Geethu S Kumar
- GY GOURAV YADUVANSHI
- HY Himanshu Yadav
- JJ JAYAPRAKASH JAYACHANDRAN
- KS Kalavathi S
- KR KALIYAPPAN R
- KR Kiranmai Rage

You are viewing Dr. Shyam Lal, Assistant Profe... 's screen View Options

Dr. Tarun Varsh...

Recording

Quality metrics for Segmentation methods

Dice Coefficient (DSC) or F1-score :

The F1-score is the harmonic mean of precision (Pr) and recall (Re or Se) and it also has the property of better characterizing quality.

$$DSC \text{ or } F1 = \frac{2 * Pr * Re}{Pr + Re} = \frac{2TP}{2TP + FP + FN} = \frac{2 * |S \cap G|}{|S| + |G|}$$

It achieves its maximum value of 1 when the segmentation of the positive class is perfect, and its lowest value of 0 when the segmentation is completely wrong.

Dice Loss = 1- Dice Coefficient(DSC)

<https://www.dshd.com/wordpress/wp-content/uploads/2019/05/DSC-F1-Score.pdf>

<https://www.dshd.com/wordpress/wp-content/uploads/2019/05/DSC-F1-Score.pdf>

Participants (82)

Panelists (4) Attendees (78)

Search

- VG Viji Gopal
- VS Vimala S
- YM Yeshudas Muttu

Chat

534

From Me to All panelists and attendees:
edit attendance for live session
it is protected free

To: All panelists and attendees

Type message here...

Unmute Start Video More Leave

Zoom Webinar

Dr. Tarun Varsh...

Recording **LIVE** on YouTube

Where Deep learning will used ?

Major Applications:

- **Signal Processing**- Speaker recognition, Music and Speech separation and etc
- **Image Processing**- Image Classification, Pattern and Facial recognition and etc
- **Healthcare**-Medical diagnosis and cancer research.
- **Wireless Communication**- 5G Networks and Beyond
- Self driving vehicle trajectory prediction
- Robotics
- Disaster Management
- Agriculture
- Data Mining
- IoT Applications
- Finance,
- Email spam filtering,
- And etc.

10

Participants (71)

Panelists (4) Attendees (67)

Q Search

- AV Aruna Verma
- AS Asha S
- AP Atrakesh Pandey
- AG Ayush Goyal

Chat

network problem, joined now

From Me to All panelists and attendees:
<https://docs.google.com/spreadsheets/d/1QpV04uRRaUceBzaFM0vXKKfTjegVWCcQKX0qLXp5rPk/edit?usp=sharing>

From Ramya Srikanteswara to All panelists:
 thank you sir

To: All panelists and attendees

Type message here...

Zoom Webinar

Dr. Vinay Pratap...

LIVE on YouTube

Detailed steps of TLBO algorithm

Step 1: Initialization

Initialize the population randomly within search space.
 Suppose, the population is initialized as

$$X_{ij}, i = 1, 2, \dots, R; j = 1, 2, \dots, C \quad (1.4)$$

where,
 R is the size of population (i.e. total candidates in population), and
 C is the dimension (i.e. the variables to be optimized) of the problem.

Detailed steps of PSO algorithm

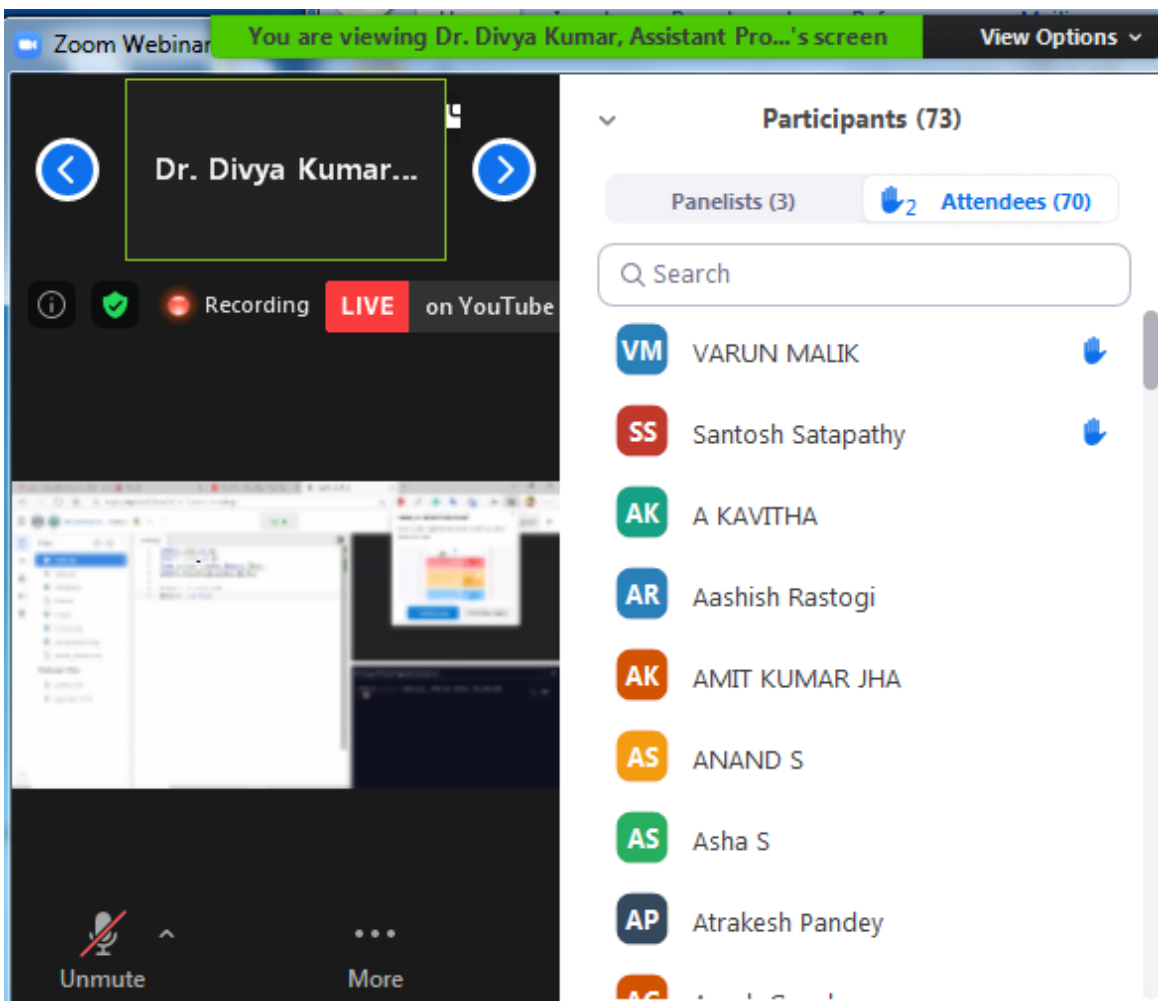
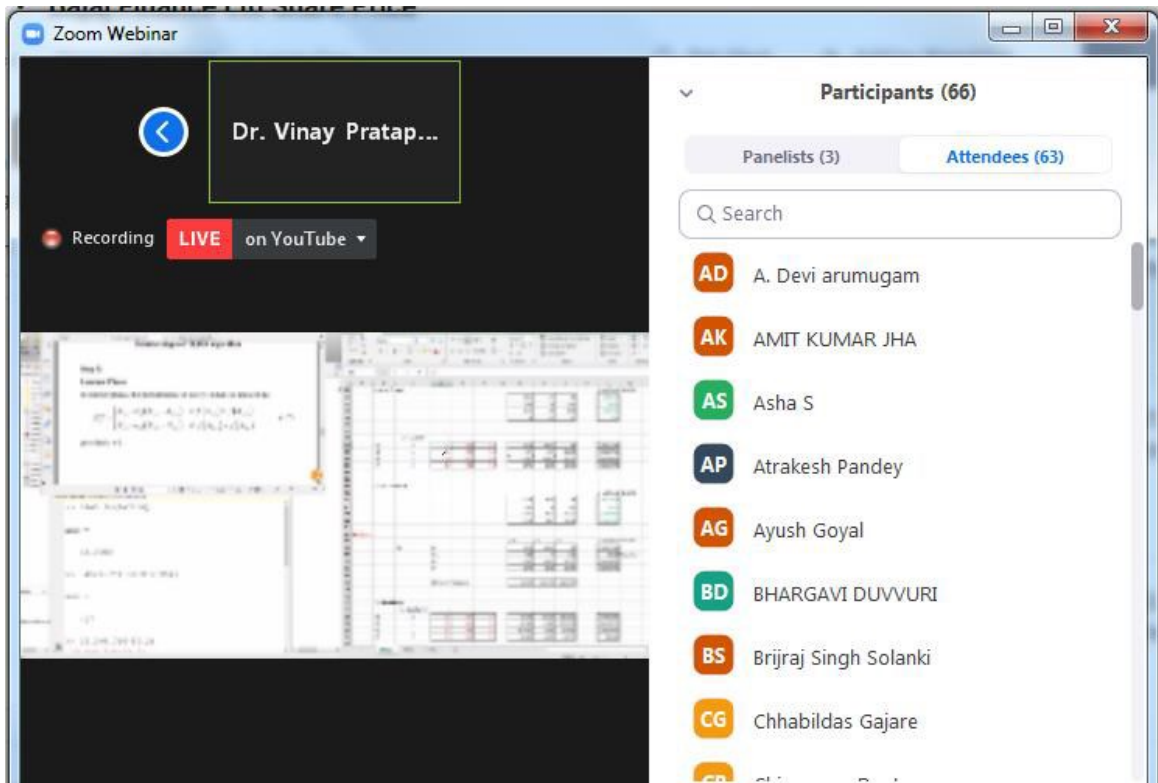
9 / 12 67.82%

Participants (53)

Panelists (3) Attendees (50)

Q Search

- SC Sunita Chahar
- SB SUSMITA BASAK
- UD Ujjal Dey
- VK VAMSI KRISHNA MANAM
- VM Varun Menon
- VM Vel Murugan
- VG Viji Gopal
- VS Vimala S



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Zoom Webinar You are viewing Dr. Divya Kumar, Assistant Pro... 's screen View Options

Dr. Tarun Varsh...

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Participants (73)

Panelists (3) Attendees (70)

Q Search

- VM VARUN MALIK
- SS Santosh Satapathy
- AK A KAVITHA
- AR Aashish Rastogi
- AK AMIT KUMAR JHA
- AS ANAND S
- AS Asha S
- AP Atrakesh Pandey
- AG Ayush Goyal
- BD BHARGAVI DUVVURI
- CG Chhabildas Gajare

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Zoom Webinar

Dr. Satish Balant...

Recording **LIVE** on YouTube

AI Applications in Electric Utilities
Dr. B. Satish

Participants (31)

Panelists (3) Attendees (28)

Q Search

- UD Ujjal Dey
- VB V BANUMATHY
- VM Vel Murugan
- YM Yeshudas Muttu

Chat

From SONU PRADHAN to All panelists:
Thank You Sir
Good Morning Sir and Happy Ganesh Chaturthi All

To: All panelists

Type message here...

❖ FEEDBACK FORM FORMAT:

FDP Feedback form ☆

Questions Responses 100 Total points: 0

FDP Feedback form

Kindly provide us your valuable feedback about the course (10 is the highest grade).

Email address *

Valid email address

This form is collecting email addresses. [Change settings](#)

Name of Participant *

Short-answer text

Name of Organization *

Short-answer text

FDP Feedback form ☆

Questions Responses 100 Total points: 0

Your experience about the course *

1 2 3 4 5 6 7 8 9 10

☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

Knowledge enhancement *

1 2 3 4 5 6 7 8 9 10

☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

Relevancy of topics. *

1 2 3 4 5 6 7 8 9 10

☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

FDP Feedback form ☆

Questions Responses 100 Total points: 0

About speakers *

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General Arrangement *

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In future you want to attend such course at this Institute (Poornima College of Engineering, Jaipur). *

☐ YES

☐ NO

CERTIFICATE FORMATE:

One Week TEQIP-III Sponsored Online Faculty Development Programme
on
Machine Learning & Deep Learning Techniques
with its Applications
In association with

IEEE
RAJASTHAN SUB SECTION

Organised By
Rajasthan Technical University, Kota
Poornima College of Engineering, Jaipur

Certificate

Certificate No. {{certificate id}}

This is to certify that {{full name}} of
{{other identifier}} has participated in the
one week Faculty Development Programme on "Machine Learning & Deep
Learning Techniques with its Applications" held from 18/08/2020 to
22/08/2020.

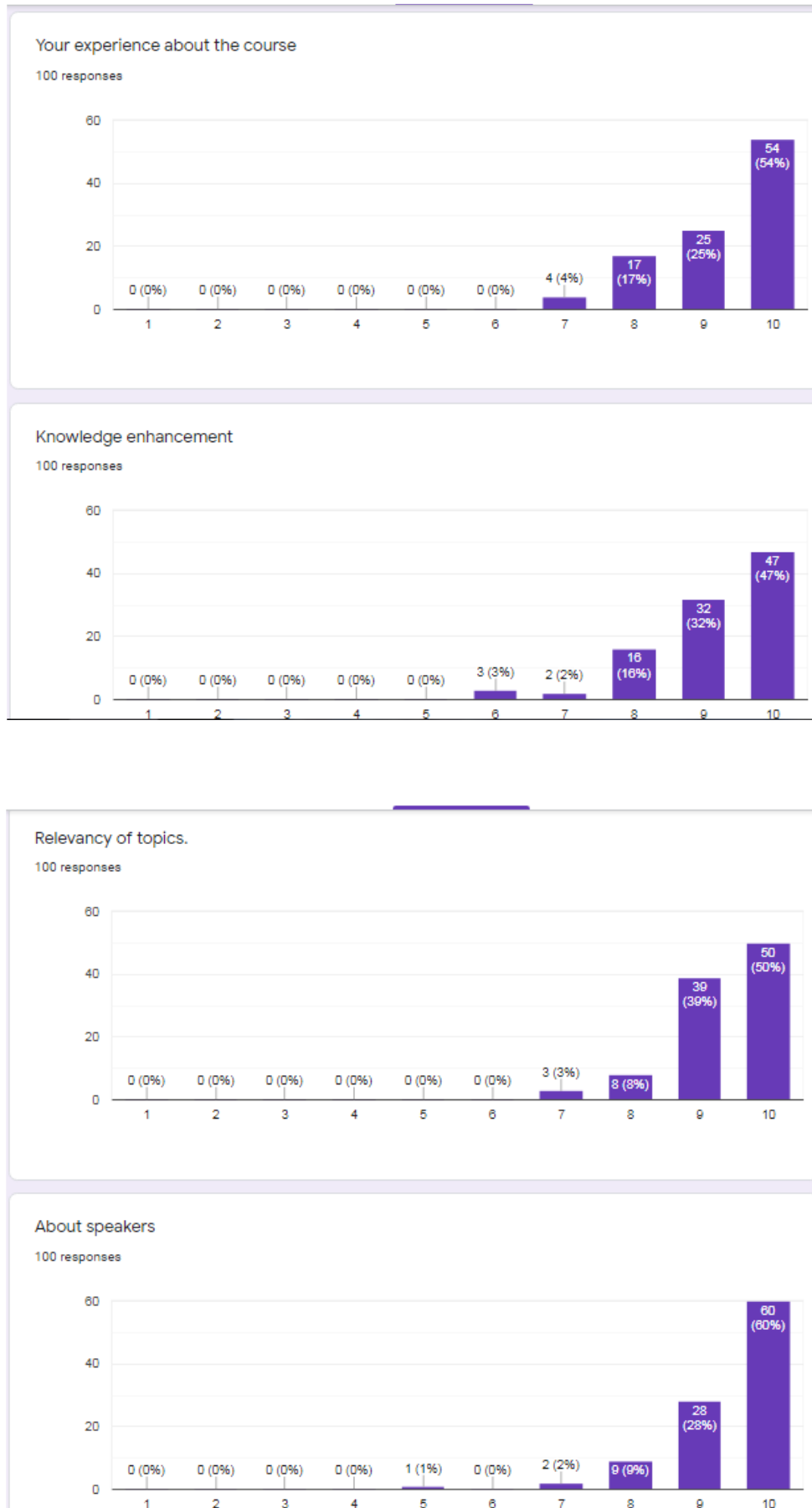
Mr. Vikash Tripathi
Coordinator
RTU, Kota

Dr. Tarun Varshney
Coordinator
(PCE, Jaipur)

Dr. Mahesh M. Bunde
Director/ Principal
(PCE, Jaipur)

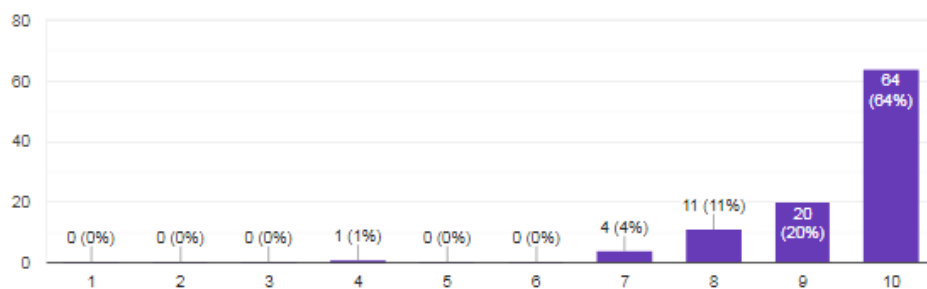
Dr. Mahesh Bunde
B.E., M.E., Ph.D.
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ISI-0, FIICO Institutional Area
Shilpura, JAIPUR

♦ FEEDBACK ANALYSIS:



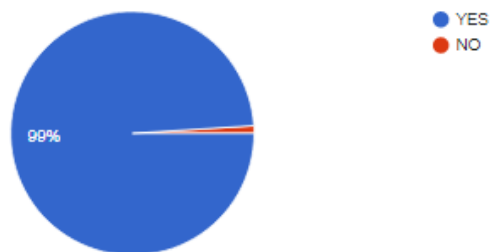
General Arrangement

100 responses



In future you want to attend such course at this Institute (Poornima College of Engineering, Jaipur).

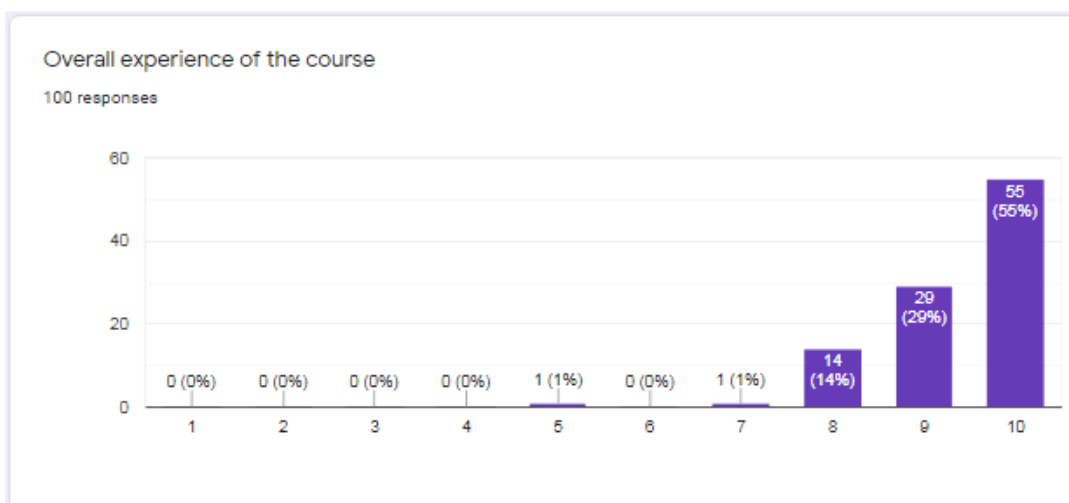
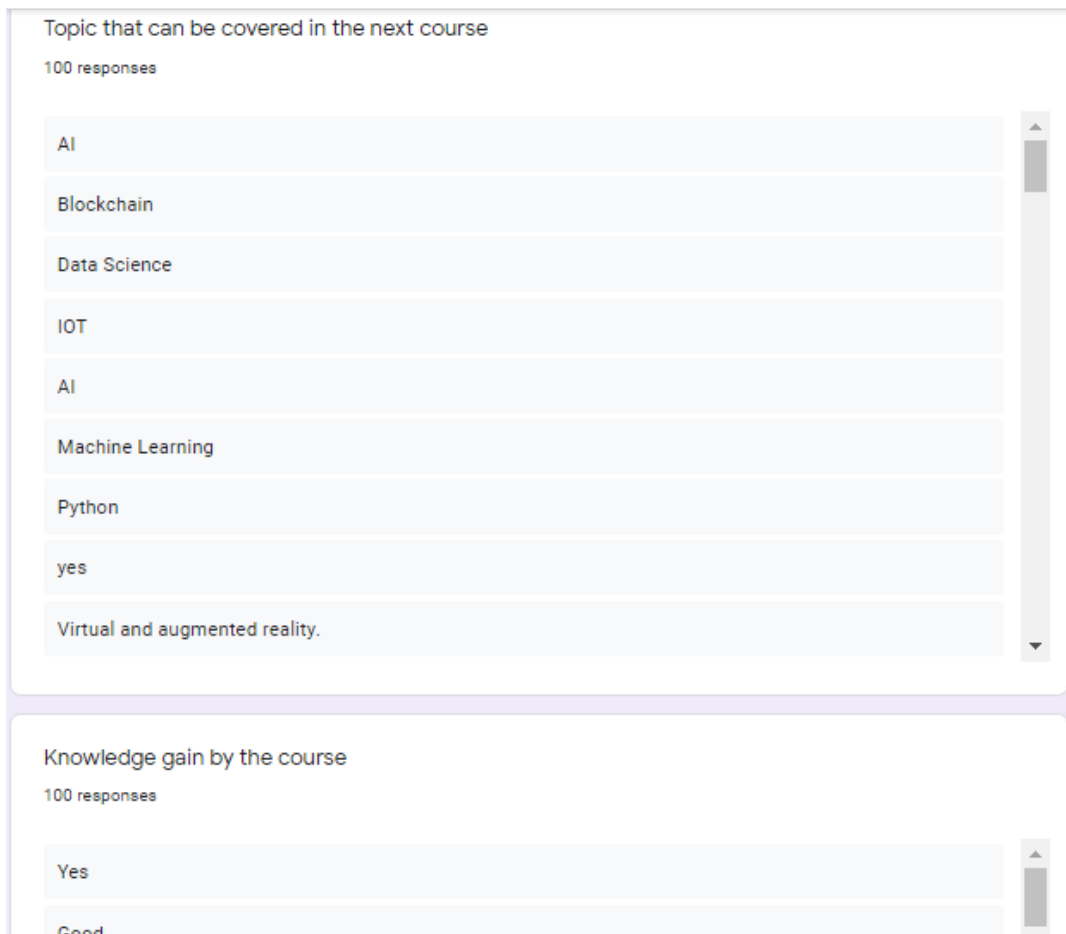
100 responses



Knowledge gain by the course

100 responses





1	2	3	4	5	6	7	8	9	10
Suggestions									
100 responses									
More Practical Exposure is required									
Nice its very good									
Attendance system may be simple									
kindly send ppt at himani.goyal@poornima.org									
Course is beneficial									
Everything was perfect									
Thank you for organizers									
Perfect one									
Nce FDP & Thank you organisers									

♦ LIST OF PARTICIPANTS:

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75.	Dinesh soni	UD RTU Kot	


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83.	Ekata Sharma	Poornima College of Engineering	jaipur
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Poornima College of Engineering - Activity Report - 2020-21

94.	Arpit Singh Bhadoriya	Poornima College of Engineering	Jaipur
95.	Saravanan B	VSVN Polytechnic College	College Road
96.	(Dr.) YASMEEN BEGUM	SHRI JYT UNIVERSITY, RAJASTHAN	M. B Nagar, Kalaburagi
97.	Kumar Manu	Moradabad Institute of Technology	B-24, Ramganga Vihar Phase-2, Moradabad
98.	J. JAYAPRAKASH	KARAIKAL POLYTECHNIC COLLEGE, KARAIKAL	Varichikudy, Karaikal
99.	Nafi'u Abdulkadir	University of Leipzig	Augustusplatz, Leipzig Germany
100.	MANU SINGH	KDK ENGINEERING COLLEGE NAGPUR	Nandanvan Nagpur