



# POORNIMA

INSTITUTE OF ENGINEERING & TECHNOLOGY

Affiliated to RTU, Kota • Approved by AICTE & UGC under 2(f) • Accredited by NAAC and NBA

## Six Days Faculty Development Program on Application of Neural Network and Machine Learning

Session (2022-2023)



**Submitted By: -**  
**Mr. Deepak Moud**  
**Coordinator**  
**Department of Computer Engineering**  
**PIET**

**Submitted To:-**  
**Dr. Dinesh Goyal**  
**Director**  
**PIET**



**Report**  
**on**  
**Six Days Faculty Development Program**  
**on**  
**“Application of Neural Network and Machine Learning”**  
**19th - 25th, January 2023**  
**Organized By-**  
**AICTE MODROB Neural Network and Deep Learning Lab,**  
**Poornima Institute of Engineering & Technology**

<b>AICTE MODROB Sponsored</b>		
<b>Six Days Faculty Development Programme on Application of Neural Network and Machine Learning</b>		
Date: 19th - 25th, January 2023		Time 12:00 -4:00
Mode of Workshop- Offline		Particip Register
	Dr. Dinesh Goyal, Professor, PIET	Selected Part
<b>Resource Persons</b>	Dr. Uday Pratap Singh Associate Professor , Department of Computer Engineering, PIET	<b>for Works</b>
	Deepak Moud Assistant Professor , Department of Computer Engineering, PIET	

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Department of Computer Engineering, Poornima Institute of Engineering & Technology has conducted **Six Days Faculty Development Program on “Application of Neural Network and Machine Learning” 19th - 25th, January 2023**

### **About Institute**

Poornima Institute of Engineering and Technology, Jaipur (PIET), is one of the premier institutions in engineering education in Rajasthan and is affiliated with Rajasthan Technical University and approved by AICTE. Shanti Education Society was established in the year 1999, initiated by Poornima Group with a student strength of 180 has now become the best destination for Technical Education in Rajasthan. During its journey of 19 years, Poornima Group has developed 4 institutions of repute and has grown to the size of 8000 students. Poornima Group institutions are known for excellent placements, consistent university results; 360-degree development of students. The society governs three AICTE-approved & RTU-affiliated colleges

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and one University approved by UGC.

PIET, is one of the premier institutions in engineering education in Rajasthan, established in the academic year 2007, is affiliated with Rajasthan Technical University and approved by AICTE. PIET is accredited by National Assessment and Accreditation Council (NAAC). Two of its programs namely B.Tech in Computer Engineering and B.Tech in Civil Engineering are accredited by the National Board of Accreditation (NBA), India for quality education. PIET has been ranked 3rd among all RTU-affiliated colleges in Quality Index Value (QIV) assessment in the academic year 2020-21. PIET has been rated as GOLD in the Survey of Industry Linked Technical Institutes conducted by AICTE-CII. The management makes sustained efforts to use education as an instrument for the growth of the economy and is the driving force & inspirational spirit behind the establishment of PIET.

The following details convey its journey of progress and benchmarking in quality education.

PIET Achievements & Highlights: -

State of Art of Infrastructure for innovative Teaching Pedagogy and ICT-based learning.

- PIET has been 1st Institution to offer B. Tech CSE in Regional language under NEP 2020 PIET is accredited by National Assessment and Accreditation Council (NAAC).
- B. Tech in Computer Engineering is accredited by the National Board of Accreditation (NBA).
- PIET has been rated PLATINUM by AICTE- CII Survey for strong Industry Linked Technical Institutes.
- PIET is the only institute in Rajasthan to be funded by AICTE with a fund of Rs. 55 Lakh for establishing IDEA Lab.
- PIET has established Neural Network & Deep Learning Lab under MODROB Scheme with granted in aid of Rs. 12,84,314/-
- PIET also Received Research Grants for more than 50 Lakh in the last 3 years from agencies like TEQIP III, AICTE, NITTTR etc.

Regular and quality placements in all Major MNCs are like Infosys, Capgemini. IBM, Adani, etc. with more than 91% of eligible students getting placed in-house every year. Industry-oriented labs for quality education IBM, Oracle, Celebal Technologies, RapidOs, Wipro, FACE, Redhat, CESA etc., Faculty Felicitation & Reward system and similar

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systems for students, Concerned for Environment & Sustainability, Waste Management, Rain Water Harvesting and Facilities for Sports, Gymnasium, Cultural Activities, Auditorium.

## **About Department**

The department of Computer Engineering (CE) was established in the year 2007 with the vision, “To create an environment in which new ideas, research and technology development and the technocrats and innovators of tomorrow become competent to face the global challenges”. In these academic years at the Department of Computer Engineering, PIET has achieved a lot of success and earned multiple achievements. The department of CE has been accredited by the National Board of Accreditation (NBA) in the year 2017-18 and got compliance till session 2023-24. This brings the department of CE to the elite list of departments holding NBA accreditation in India. As a result, the PIET CE department is currently recognized for offering the best practices and industry standards in engineering. This achievement is only possible because of the continuous efforts of dedicated mentors and bright students. The department had never compromised on the quality of education and to assure this an adequate number of faculty members and technical assistants were always appointed. The majority of faculty members hold an M.Tech degree as a minimum qualification. Additionally, 40% of the faculty in the department hold a PhD.

The department believes in outcome-based education and a result-oriented approach, which enables us to attract intelligent students available in the state and as well as outside. Currently, 867 students are enrolled in the department. The admission in the department from 2007 to 2021 has been consistent and has always been more than 95%. The department of CE has the best infrastructure, in terms of thirteen computer labs, ten classrooms, 3 Electronic labs and 19 faculty rooms. The department has one state of art online lab for conducting online tests and research and development. With the honor of being the largest and most responsible department in the institute, the department of CE has always got the highest result and the result has always been consistent and encouraging. Due to its working methodologies and industry-oriented approach, it has converted the hard work of students into strong placements. The department has got the highest placement in PIET. In terms of percentage, placement is increasing and many students get placed in big IT Giants like Infosys, TCS, Capgemini, IBM,

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Evolphin, Naggaro, and Appirio every year. To be recognized by industrial houses as a source of consultancy and process management, departments always nurture students to develop innovative projects using innovative technologies. Students develop a project in each year of study starting from I year in the field of machine learning, Cloud Computing, Data Science, Big data, sales Force, IoT, image processing and Industry oriented projects using PHP, Python, and JAVA. To showcase projects, the Department of Computer Engineering organizes a project exhibition “PRAKALP” every year for students of all years. Computer Engineering, PIET in which around 60 projects were developed under NSP.

The department of CE has started a new initiative for 2<sup>nd</sup> and 3<sup>rd</sup> year students by introducing a concept of Non-Syllabus Project. In this scheme, all students of 2<sup>nd</sup> and 3<sup>rd</sup> year develop real-world projects using Python and PHP. Final year students are also developing projects. The department holds its position of being the most innovative and research-oriented workplace so around 40% of the final year publish review/ Research papers in the area of smart computation and technology. Every faculty member publishes at least two papers each year. To encourage and to provide platform one International Conferences on Smart Computation and Technology (ICSCT) have been organized. To further strengthen the research and development, the department is considering technical seminars as research paper presentations under strict mentorship of faculties, alumni's and industrial experts. Teachers and students have conducted many workshops to provide insight on new trends & technology and to bridge the gap between industry and academia. The workshops are Artificial intelligence, Python Programming, Android Programming, PHP MySQL and many more of similar kind. It has been the need of the hour to get exposure to new technology to survive in the evolutionary industry so the department has introduced IBM Business Intelligence, IBM Cloud Computing and IBM IoT courses and Machine Learning Courses for all the students. To strengthen the skill set of teachers and students, the department organizes student development and faculty development programs with the help of alumni and industrial experts. To prepare students for placement the department conducts many Placement drives, coding competitions; aptitude tests, sessions by FACE and technical sessions. Students also take part in national Competitions such as TCS Codevita, Aspiration 2020 and similar coding and website Designing Competitions. Department also encourages students to participate and contribute to the outside world and society. In order to improve transparency and agility in the scheme of marks allocation, the department has launched

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a marks allotment system which is a web portal to allocate marks of various activities and processes under common pool and DECA. It has taken initiative to start its own portal for the home assignment submission and awarding marks. There are many other software's that are also used, which are developed by the faculty members and students of department such as KYS, cstech.poornima.org because of all these efforts and team work department has been recognized as one of the most innovative department in Poornima foundation under Innovation Excellence Mission. We have been striving hard this semester to achieve the following goals, in order to excel as a Department.

- Outcome based quality education Introducing New Technology Machine learning, Data Science, Sales Force.
- Utilization of Information technology
- Student Driven Department

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## **About AICTE MODROB sponsored deep learning and Neural network Lab\**

FDP was conducted in AICTE MODROB Sponsored Deep learning and Neural network lab at Poornima Institute of engineering & Technology. PIET has been granted aid of Rs. 12.84314/- for establishing Neural Network & Deep Learning Lab under MODROB Scheme. This Lab is established to provide environment in which new ideas, research and technology develop in the area of Deep learning, Machine learning, Computer Vision, Algorithm, OOPS, Database Management system, Mobile application development and Web development. This lab imparts training and facilitate technocrats and innovators of tomorrow to become competent to face the global challenges. This lab is equipped with RTX Quadro 8000 GPU with 2x Intel Xeon Silver 4214 Processor, / 4x32GB RAM, (128 GB) / 1TB M.2 SSD HardDisk + 2TB M.2 SSD, DP to HDMI Adapter, DOS, 92% 1000W Power Supply to perform experiments and available 27X7 remotely.

## **About FDP**

AICTE Sponsored Neural Network & Deep Learning Lab at Poornima Institute of Engineering & Technology, Jaipur, India is proposing a **Six days Faculty Development Program on Applications of Neural Network and Machine Learning from 19 Jan - 25 Jan, 2023.**

## **Executive Committee**

- Dr. Dinesh Goyal, Principal, and Coordinator, AICTE MODROB Deep learning and Neural network Lab, PIET
- Mr. Deepak Moud, HoD, Department of Computer Engineering
- Dr. Uday Pratap Singh, Associate Professor, Department of Computer Engineering

## **Prerequisites:**

Basic Statistics

Linear Algebra

Fundamentals of Python Programming

Bash Terminal / Cloud Console

## **Registration Link:**

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<https://forms.gle/zCKiR5bTUyWZ9Pzm8>

## Schedule of Program

Dates	Session 1 (12 PM to 2 PM)	Session 2 (2 PM to 4PM )
19/01/2023	Data Preprocessing & Linear Regression	Decision Tree Classification
20/01/2023	Deployment of ML Model using streamlit and Flask	Naïve Bayes Classification, KNN
21/01/2023	SVM, Random forest algorithm	K-Means Clustering
23/01/2023	ANN/ CNN	Sentiment Analysis using NLP
24/01/2023	Application Development	Application Development
25/01/2023	Assignment	Assignment

**Venue :- Technical session location-- BG02A Lab, PIET, Jaipur.**

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## Session Detail

### **Day 1 - Session 1 : Thursday, 19 January, 2023- 9:00 AM - 11:00 AM**

Topic : Data Preprocessing & Linear Regression

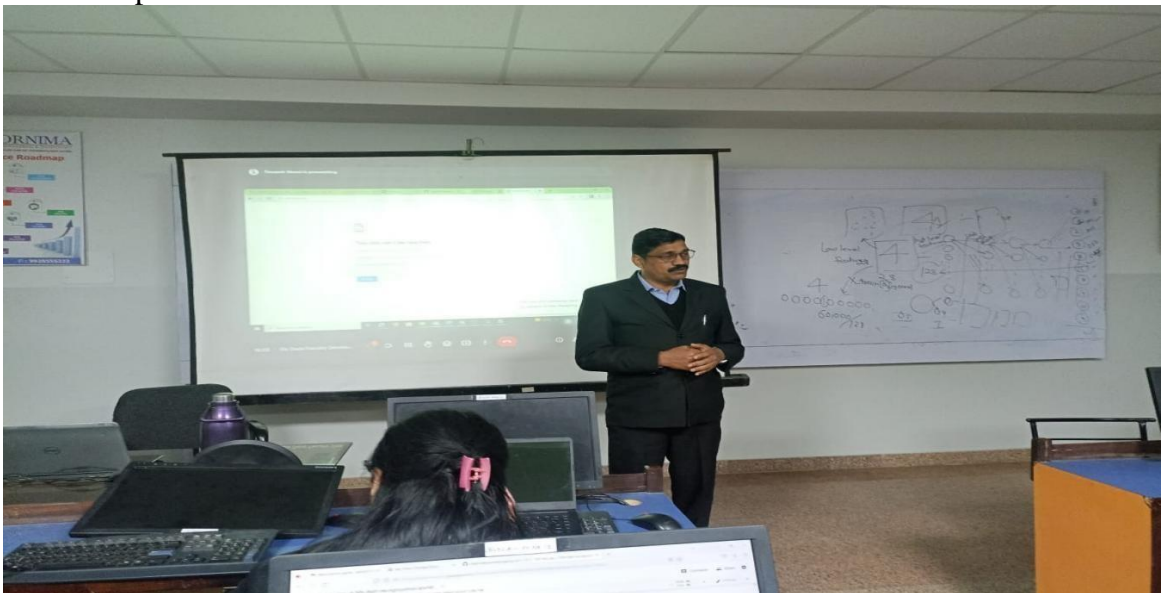
Resource Person : Mr. Deepak Moud, Assistant Professor and Dr. Uday Pratap Singh.  
Associate professor.



### **Day 1 - Session 2 : Thursday, 19 January, 2023- 2:00 PM - 4:00 PM**

Topic : Decision Tree Classification

Resources Person : Mr. Deepak Moud, Assistant Professor and Dr. Uday Pratap Singh.  
Associate professor.



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## **Day 2 - Session 1 : Friday, 20 January, 2023- 9:00 AM - 11:00 AM**

Topic : Deployment of ML Model using streamlit and Flask

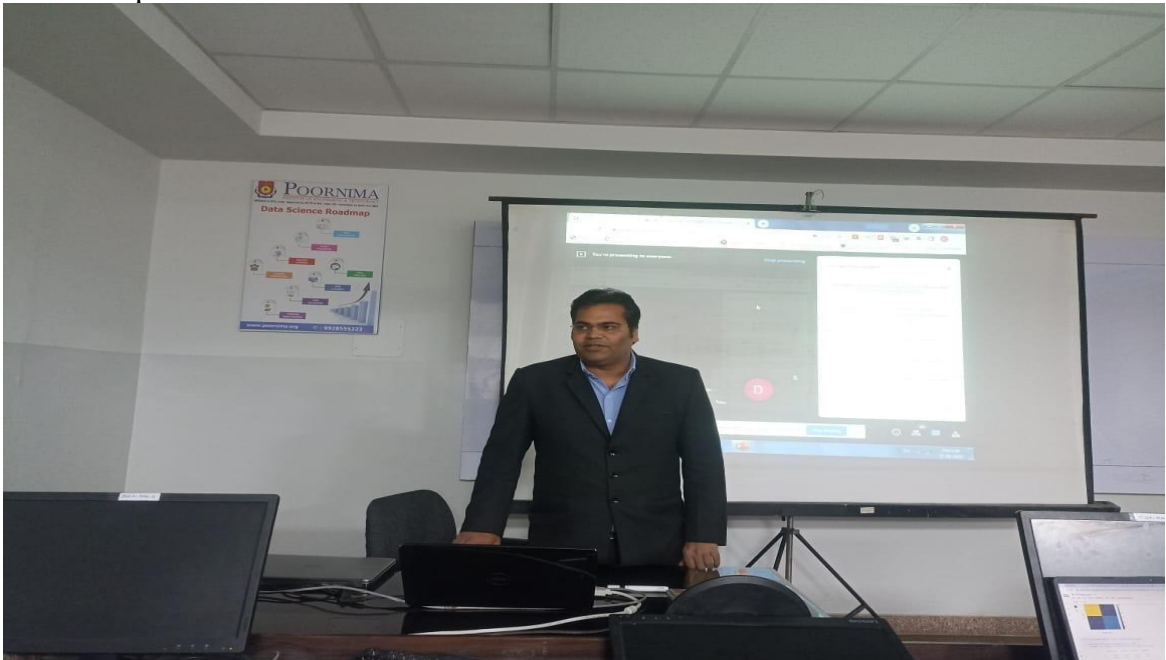
**Resources Person** : Mr. Deepak Moud, Assistant Professor and Dr. Uday Pratap singh.  
Associate professor.



## **Day 2 - Session 2 : Friday, 20 January, 2023- 2:00 PM - 4:00 PM**

Topic : Naïve Bayes Classification, KNN

**Resources Person** : Mr. Deepak Moud, Assistant Professor and Dr. Uday Pratap singh.  
Associate professor.



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### **Day 3 - Session 1 : Saturday, 21 January, 2023- 9:00 AM - 11:00 AM**

Topic : SVM, Random forest algorithm

Resource Person : Dr. Dinesh Goyal, Profesor, PIET and Dr. Uday Pratap singh.  
Associate professor.



### **Day 3 - Session 2 : Saturday, 21 January, 2023- 2:00 PM - 4:00 PM**

Topic : K-Means Clustering

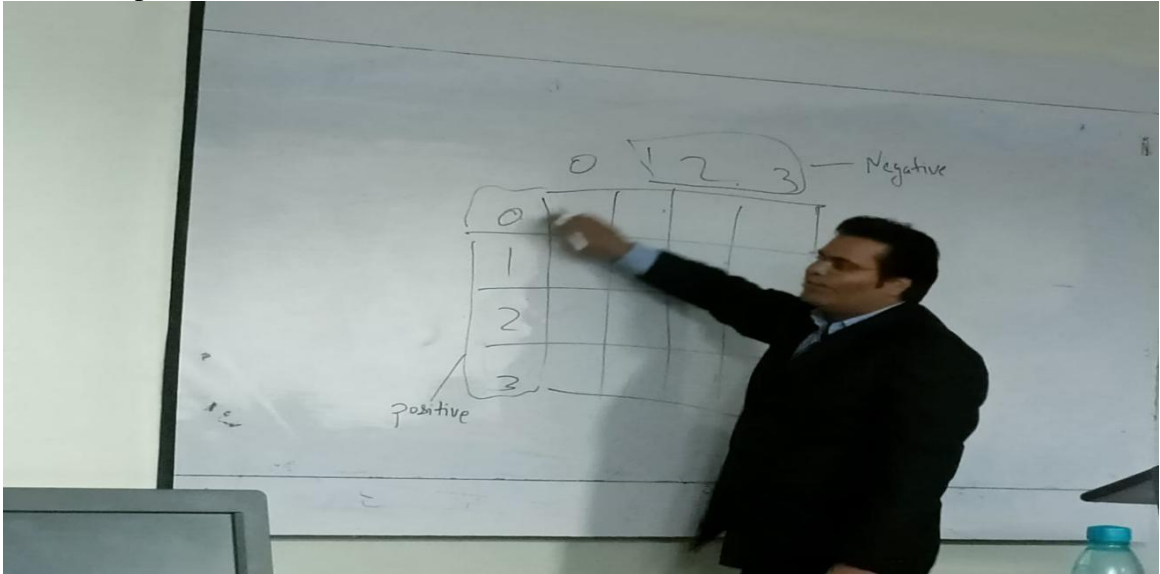
Resource Person : Mr. Deepak Moud, Assistant Professor and Dr. Uday Pratap singh.  
Associate professor.



**Day 4 - Session 1 : Monday, 23 January, 2023- 9:00 AM - 11:00 AM**

Topic : ANN/ CNN

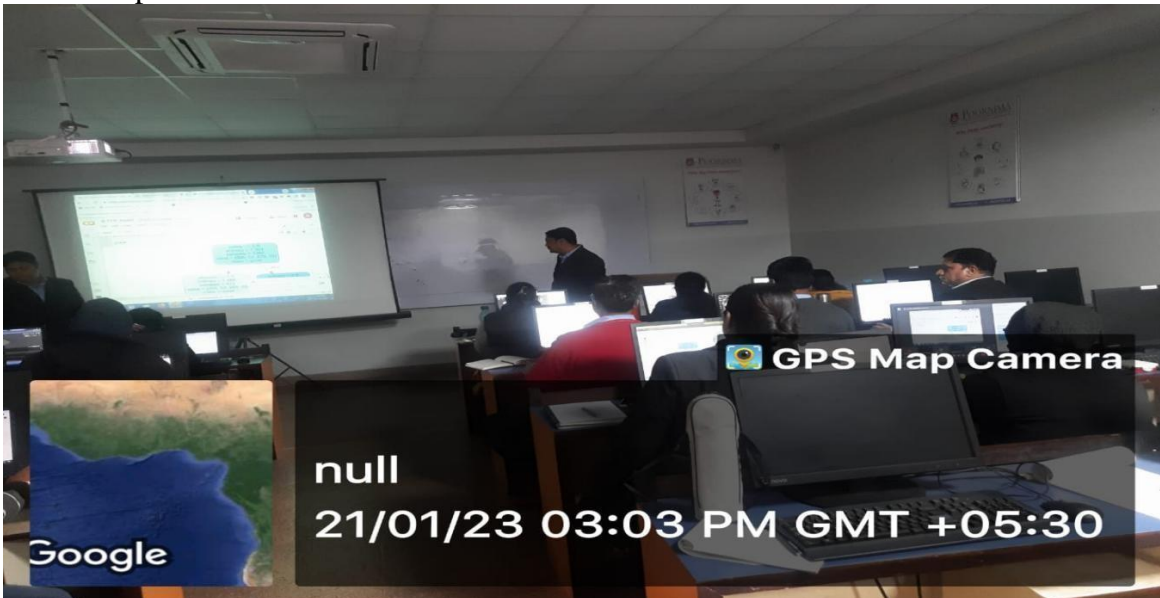
**Resource Person :** Mr. Deepak Moud, Assistant Professor and Dr. Uday Pratap singh. Associate professor.



**Day 4 - Session 2 : Monday, 23 January, 2023- 2:00 PM - 4:00 PM**

Topic : Sentiment Analysis using NLP

**Resource Person :** Mr. Deepak Moud, Assistant Professor and Dr. Uday Pratap singh. Associate professor.

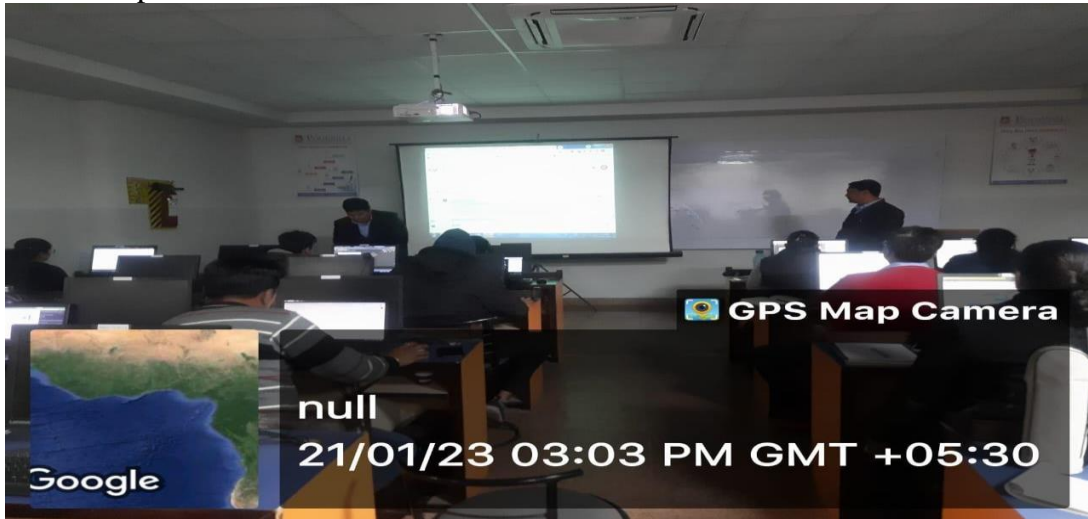


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**Day 5 - Session 1 : Tuesday, 24 January, 2023- 9:00 AM - 11:00 AM**

Topic : Application Development

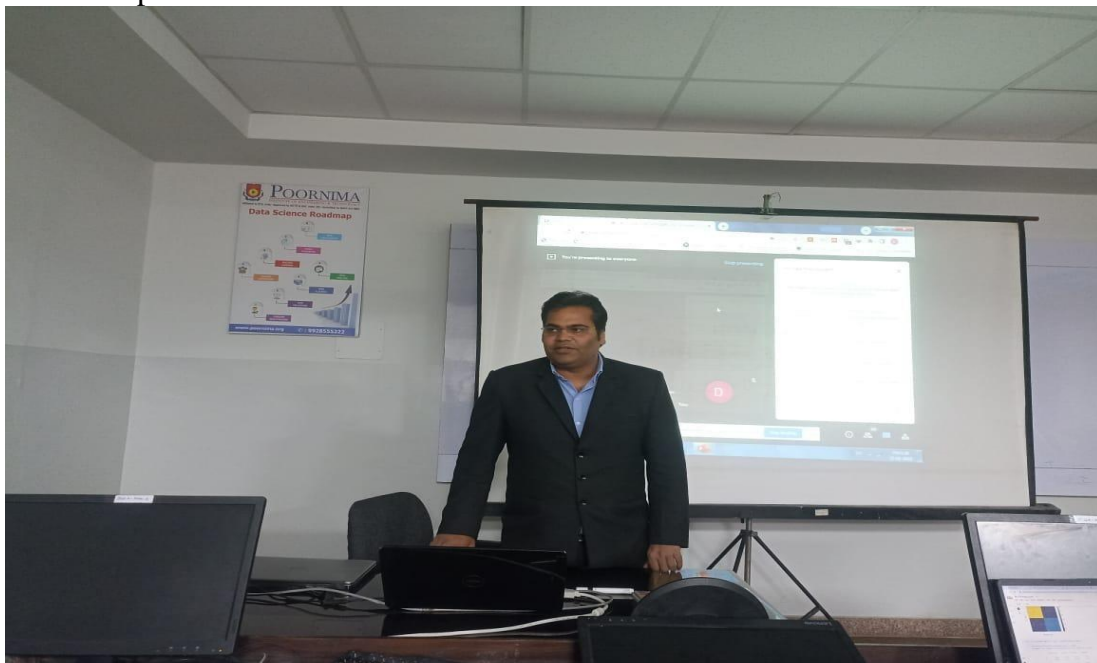
**Resource Person :** Mr. Deepak Moud, Assistant Professor and Dr. Uday Pratap singh.  
Associate professor.



**Day 5 - Session 2 : Tuesday, 24 January, 2023- 2:00 PM - 4:00 PM**

Topic : Application Development

**Resource Person :** Mr. Deepak Moud, Assistant Professor and dr. Uday Pratap singh.  
Associate professor.

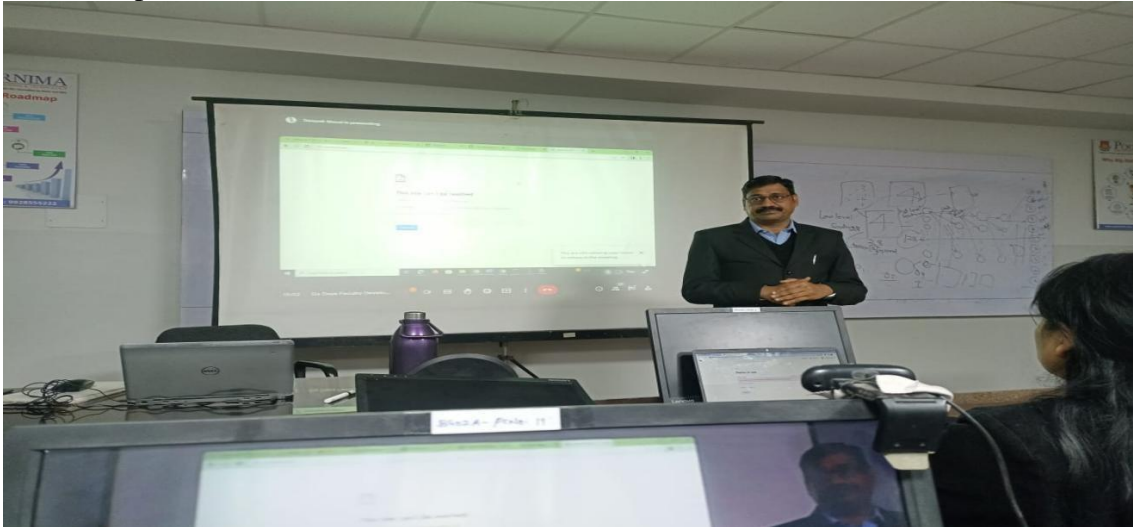


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**Day 6 - Session 1 : Wednesday, 25 January, 2023- 9:00 AM - 11:00 AM**

**Topic :** Assignment

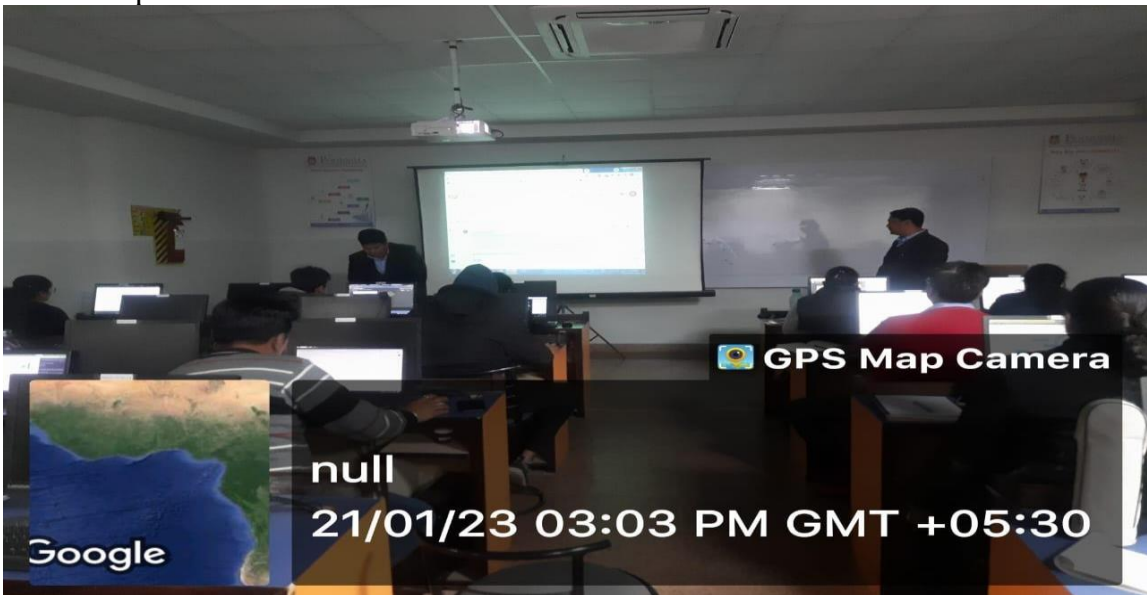
**Resource Person :** Mr. Deepak Moud, Assistant Professor and Dr. Uday Pratap singh. Associate professor



**Day 6 - Session 2 : Wednesday, 25 January, 2023- 2:00 PM - 4:00 PM**

**Topic :** Assignment

**Resource Person :** Mr. Deepak Moud, Assistant Professor and dD. Uday Pratap singh. Associate professor.



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## Valedictory session



**List of participants.**

S. No.	Name	Email id	Affiliation
1	Indra Kishor	indra.kishor@poornima.org	Poornima Institute Of Engineering And Technology
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24	Sumit Sharma	sumit.sharma@poornima.org	Poornima College Of Engineering
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27	Deepshikha Gupta	deepshikha.gupta@poornima.org	Poornima Institute Of Engineering & Technology
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30	Abhishek Parashar	abhishek.parashar@poornima.org	Poornima College Of Engineering
31	Shikha Gautam	shikha.gautam@poornima.org	Piet, Jaipur
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39	Nikita Sharma	nikita.sharma@poornima.edu.in	Poornima University
40	Dr. Pankaj Rahi	pankaj.rahi@poornima.org ; pankaj.rahi@outlook.com	Poornima Institute Of Engineering And Technology (Naac And Nba Accredited Institute Under Rtu, Kota), Jaipur Rajasthan

## Annexure : Sample Certificate



Certificate ID No.:  
68b4b2d9-2d88-420c-  
e3e3-67141afe89e2



Certificate ID No.:  
3d2c09d7-89c5-4612-  
9d67-75b929872c76

# CERTIFICATE OF PARTICIPATION

PROUDLY PRESENTED TO

**Mohnish Sachdeva**

For attending the Six Days Faculty Development Program on Applications of Neural Network and Machine learning from 19 Jan-25 Jan 2023 at AICTE MODROB Sponsored Neural Network and Deep Learning Lab, PIET, Jaipur, Rajasthan, India

Date: **11 Feb 2023** Issued by: **Poornima Institute of Engineering & Technology.**

**Deepak Moud**  
FDP, Coordinator

**Dr. Dinesh Goyal**  
Principal, PIET

# CERTIFICATE OF PARTICIPATION

PROUDLY PRESENTED TO

**Shikha Gautam**

For attending the Six Days Faculty Development Program on Applications of Neural Network and Machine learning from 19 Jan-25 Jan 2023 at AICTE MODROB Sponsored Neural Network and Deep Learning Lab, PIET, Jaipur, Rajasthan, India

Date: **11 Feb 2023** Issued by: **Poornima Institute of Engineering & Technology.**

**Deepak Moud**  
FDP, Coordinator

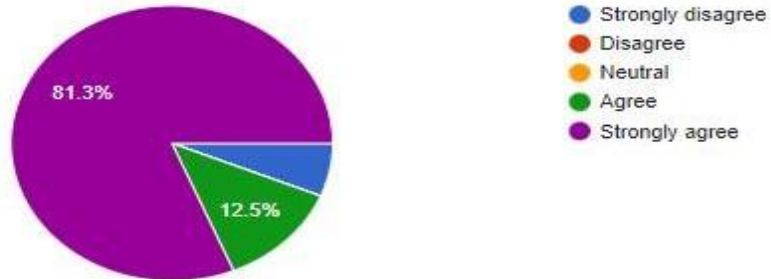
**Dr. Dinesh Goyal**  
Principal, PIET

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## FDP Feed Back

The workshop content was relevant for me

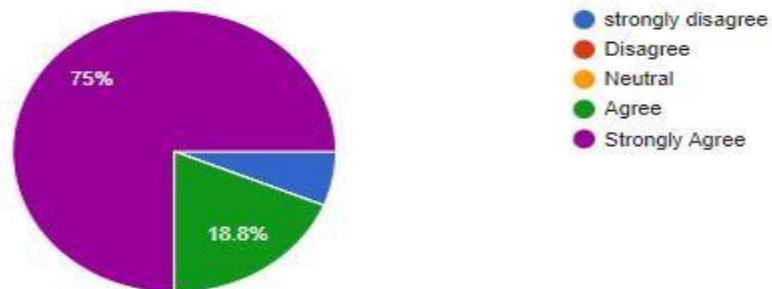
16 responses



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The OVERALL content of the workshop was excellent

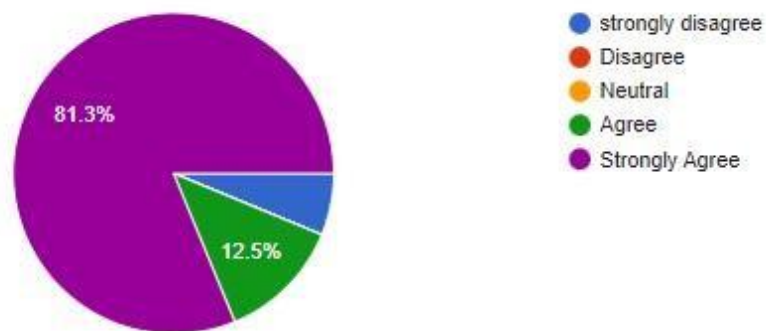
16 responses



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The trainers had very strong expertise in the area

16 responses



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The trainers had excellent communication skills

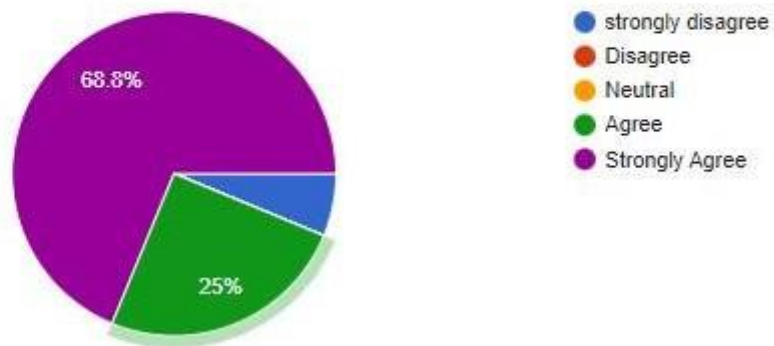
16 responses



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The trainer were very well prepared for the workshop

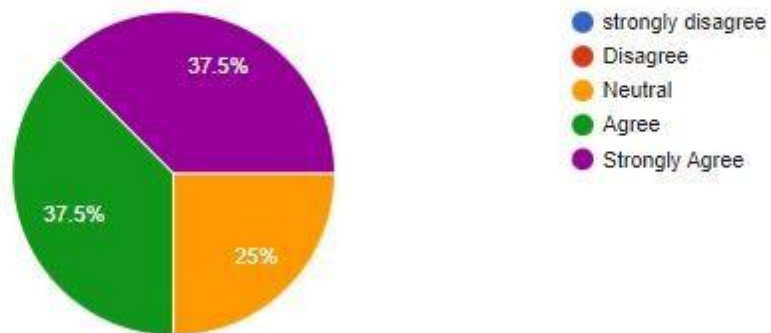
16 responses



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I did not face any Internet connectivity issue

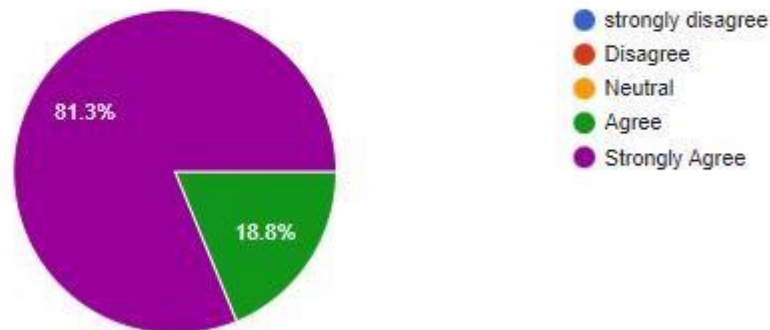
16 responses



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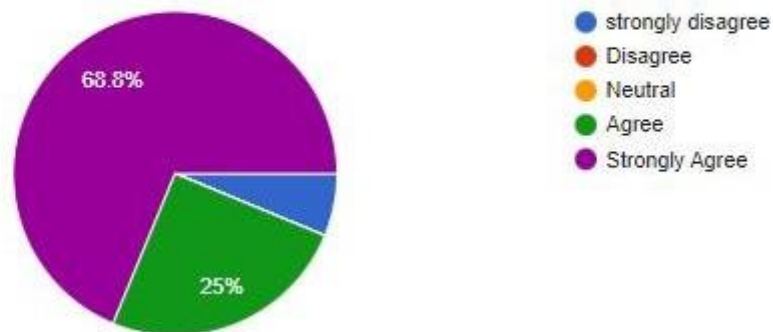
### The registration process was extremely efficient and smooth

16 responses



### OVERALL – how would you rate the workshop

16 responses



### Any other suggestion

6 responses

Fdp was very good and got very much knowledge about machine learning

I just realized how practically we can explore everything and being an engineering we do not follow anything until we do its programming , in the same way we can explore God...why do we follow the thesis only while we can practically realize him. Also the topic in the last session that skull of a person after his/her death why this act done? our scriptures says that it is the significance to all other humans that there is nectar filled in skull which a human can get while he is alive, so try to know and get it while you are alive.

Time duration of FDP should be in morning . and it should be of 2 hr in morning and 2 hr in afternoon.

Excellent

