
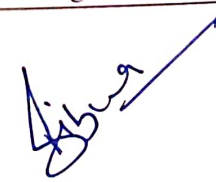




**Centre for Artificial Intelligence**

**Activity Report**

<b>Title of activity:</b>	One-Week Peer-Learning Training Programme on "Artificial Intelligence and Machine Learning -Basics"
<b>Duration of activity:</b>	8 Jan, 2024 to 12 Jan, 2024
<b>Number of participants:</b>	Twenty One (21)
<b>Organized by:</b>	Centre for Artificial Intelligence
<b>Brief Description of the activity:</b>	<p>The training module was conducted with an intent to equip the internal faculty members of other departments with the concepts and tools of Artificial Intelligence and Machine Learning. The contents delivered during the training module are described briefly as:</p> <ul style="list-style-type: none"><li>• <b>Day-1:</b> The training started with the introduction to the concepts of Artificial intelligence, its scope, and applications delivered by Dr. Vibha Tiwari. Hands-on session on Basics of Python Programming is conducted by Dr. Sunil Kumar Shukla in which concepts of Variables and data types, Arithmetic and Logical Operators, Lists ,Tuples , Dictionaries and sets etc was discussed.</li><li>• <b>Day-2:</b> During the second day of the training, the concepts of Machine learning were discussed , its types , comparison with conventional programming etc. were discussed. During Hands on session introduction of Python Library Numpy was done. These sessions were taken by Dr. Vibha Tiwari and Dr. Sunil Kumar Shukla.</li><li>• <b>Day-3:</b> The sessions for this day were delivered by Dr. Sunil Kumar Shukla, during which he discussed about the concept of Linear regression. In Lab session overview of the Python library Pandas was done By Dr. Vibha Tiwari</li><li>• <b>Day-4:</b> During the session, Dr. Sunil Kumar Shukla has given the introduction to Matplotlib. Dr, Vibha Tiwari discussed the concepts of the performance Matrices, confusion matrix used for evaluation of the algorithms.</li><li>• <b>Day-5:</b> Dr. Vibha Tiwari demonstrated the implementations of machine learning project using Scikit learn. Dr. Sunil Shukla discussed the concept of Neural Network and its application in Machine learning.</li></ul> <p>During all the sessions of the training module a thorough hands-on practice was carried out using Google Colab, Spider, Jupyter, Anaconda etc., to clearly explain and implement the concepts of Artificial Intelligence and Machine Learning, feedback was taken at the end of the training module.</p>



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<b>Name of the Trainers:</b>	<ul style="list-style-type: none"><li>• Dr. Vibha Tiwari</li><li>• Dr. Sunil Kumar Shukla</li></ul>
<b>Objectives of the activity:</b>	<ul style="list-style-type: none"><li>• Foster a collaborative learning environment and to provide fundamental knowledge and insights on AIML basics</li><li>• Facilitate the development of practical skills in AIML through hands-on activities, coding exercises, and real-world applications.</li><li>• Promote problem-solving abilities by encouraging participants to discuss and solve challenges related to AIML concepts.</li><li>• Encourage participants to work together on projects to apply theoretical knowledge to practical problems.</li></ul>
<b>Outcomes of the activity:</b>	After completing the activity, the participants were able to: <ul style="list-style-type: none"><li>• Recall and recognize AIML basics</li><li>• Remember key concepts, algorithms, and terminology through readings and discussions.</li><li>• Apply AIML basics to solve real-world problems in collaborative projects.</li><li>• Evaluate code, identify errors, and assess the impact of various decisions on project outcomes.</li><li>• Integrate various AIML concepts to design solutions and contribute to the development of practical applications.</li></ul>
<b>Mode of activity:</b>	Offline at Conclave Center, MAC lab, Computer Lab, Electrical Engineering Dept.

Dr. Vibha Tiwari

Dr. Sunil Kumar Shukla

Dr. Rajni Ranjan Singh Makwana  
Coordinator  
Centre for Artificial Intelligence



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### Schedule of Peer-Learning Training Programme on "Artificial Intelligence and Machine Learning- Basics"

Date	Time	Session Contents	Resource Person
8 January, 2024 (Monday)	11:00 AM to 01:00 PM	Introduction to Artificial Intelligence	Dr. Vibha Tiwari
	2:00 PM to 04:00 PM	Hands-on session on Basics of Python Programming:	Dr. Sunil Shukla
9 January, 2024 (Tuesday)	11:00 AM to 01:00 PM	Fundamentals of Machine learning	Dr. Vibha Tiwari
	2:00 PM to 04:00 PM	Hands -on session on Introduction to NumPy	Dr. Sunil Shukla
10 January, 2024 (Wednesday)	11:00 AM to 01:00 PM	Linear Regression Multiple Linear Regression Performance Metrics	Dr. Sunil Shukla
	2:00 PM to 04:00 PM	Hands on session on Introduction to Pandas	Dr. Vibha Tiwari
11 January, 2024 (Thursday)	11:00 AM to 01:00 PM	Regression vs Classification Problems Confusion matrix	Dr. Vibha Tiwari
	2:00 PM to 04:00 PM	Hands on session on: Introduction to Matplotlib and seaborn	Dr. Sunil Shukla
12 January, 2024 (Friday)	11:00 AM to 01:00 PM	Introduction to Neural Networks	Dr. Sunil Shukla
	2:00 PM to 04:00 PM	Hands on session : Machine learning using Scikit Learn	Dr. Vibha Tiwari

Sunil

Vibha



### Event Attendance

#### Centre for Artificial Intelligence

#### One-Week Peer-Learning Training Programme

on

#### “Artificial Intelligence and Machine Learning -Basics”

8th January, 2024 to 12th January, 2024

Venue: Conclave Centre, MITS, Gwalior

#### Attendance Sheet

S. No.	Name of the Faculty	Signature				
		Day-1 8/1/2024	Day-2 9/1/2024	Day-3 10/1/2024	Day-4 11/1/2024	Day-5 12/1/2024
1.	Ms. Akancha Tiwari					
2.	Dr. R. P. Narwaria					
3.	Dr. Varun Sharma					
4.	Mr. Ajay Singh Rajput;	A	A	A	A	A
5.	Mr. Vaibhav Shivhare;	A	A	A	A	A
6.	Dr. Nitin Upadhyay	A	A	A	A	A
7.	Shivangi Sharma					
8.	Smita Parte					



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	Day-1	Day-2	Day-3	Day-4	Day-5
9. Dr. Nookal Venu	NO	NO	NO	A	A
10. Dr. Kaushal Pratap Sengar	<del>Sengar</del>	<del>Sengar</del>	<del>Sengar</del>	<del>Sengar</del>	<del>Sengar</del>
11. Dr. Atul Kumar Ray	<del>Ray</del>	<del>Ray</del>	<del>Ray</del>	<del>Ray</del>	<del>Ray</del>
12. Dr. Divya Chaturvedi	<del>Divya</del>	<del>Divya</del>	<del>Divya</del>	<del>Divya</del>	<del>Divya</del>
13. Dr. Jitendra Kumar	<del>JK</del>	A	<del>JK</del>	<del>JK</del>	<del>JK</del>
14. Amit Kumar Manjhar	<del>AM</del>	<del>AM</del>	A	A	A
15. Mahesh Parmar	<del>PM</del>	<del>PM</del>	<del>PM</del>	<del>PM</del>	<del>PM</del>
16. Gautam Bhadoria	<del>GB</del>	<del>GB</del>	<del>GB</del>	<del>GB</del>	<del>GB</del>
17. Shyamveersingh Chauhan	<del>Shauhan</del>	<del>Shauhan</del>	<del>Shauhan</del>	<del>Shauhan</del>	<del>Shauhan</del>
18. Prof. Richa Sharma	<del>RS</del>	<del>RS</del>	<del>RS</del>	<del>RS</del>	<del>RS</del>
19. Prof. Poonam Singh	<del>P Singh</del>	<del>P Singh</del>	<del>P Singh</del>	<del>P Singh</del>	<del>P Singh</del>
20. Prof. Vishal Chaudhary	<del>Vishal</del>	<del>Vishal</del>	<del>Vishal</del>	<del>Vishal</del>	<del>Vishal</del>
21. Prof. Kuldeep Kumar Swarnkar	A	A	A	A	A

Smit

Sharma

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### Assessment of Peer-Learning Training Programme on "Artificial Intelligence and Machine Learning -Basics"

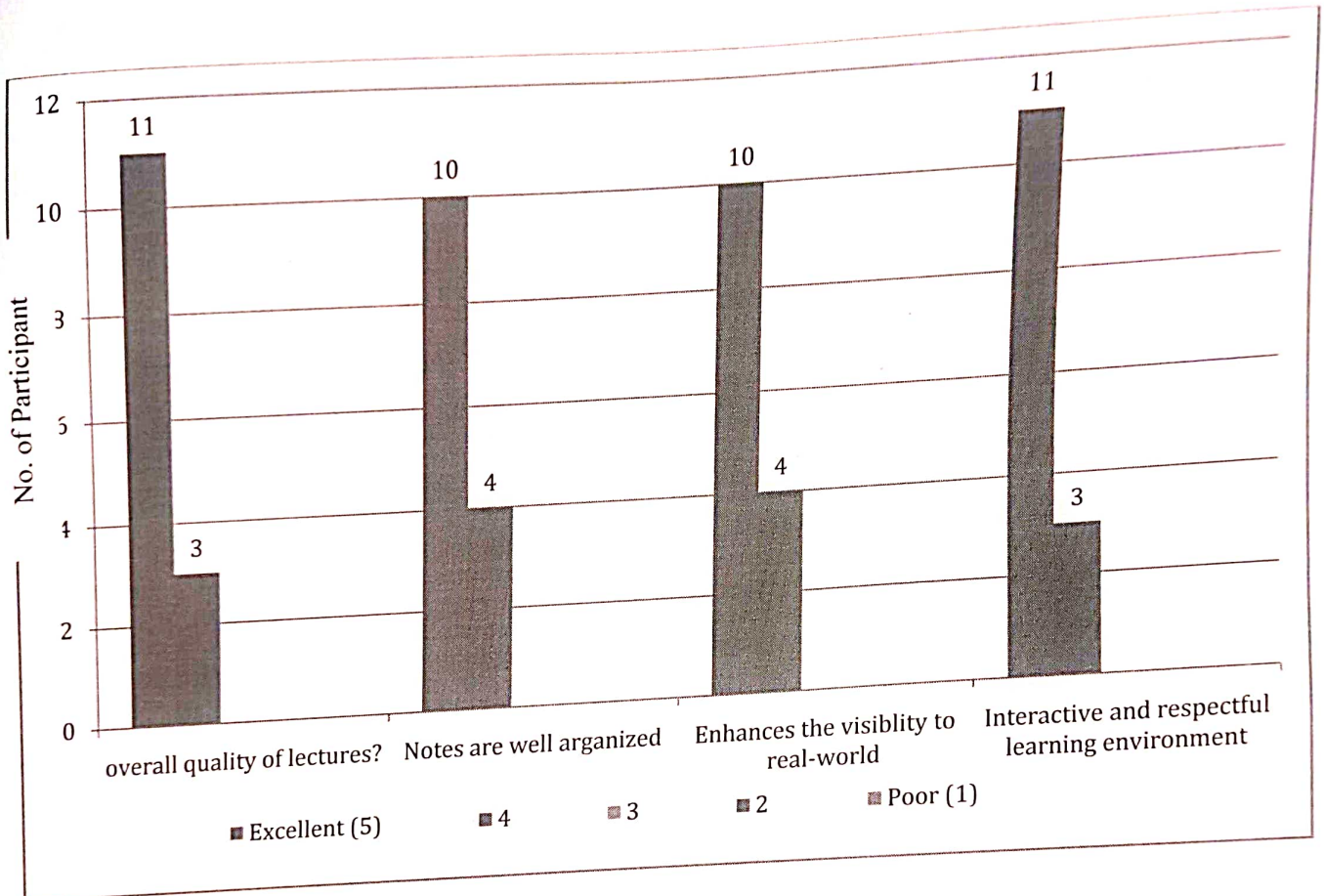
S No.	Name	Quiz-1 Marks	Quiz-2 Marks	Total Marks out of 20
1	Amit Kumar Manjhvar	9 / 10	8 / 10	17
2	Dr. Atul Kumar Ray	10 / 10	9 / 10	19
3	Dr. Kaushal Pratap Sengar	9 / 10	10 / 10	19
4	Gautam Bhadoriya	10 / 10	10 / 10	20
5	Mahesh Parmar	10 / 10	10 / 10	20
6	Poonam Singh	10 / 10	9 / 10	19
7	Richa Sharma	10 / 10	10 / 10	20
8	Shivangi Sharma	9 / 10	9 / 10	18
9	Shyamveer Singh Chauhan	10 / 10	10 / 10	20
10	Smita Parte	10 / 10	10 / 10	20
11	Varun Sharma	9 / 10	10 / 10	19
12	Ajay Singh Rajput	-	10 / 10	10
13	Vishal Chaudhary	10 / 10	10 / 10	20
14	Dr Nookala Venu	9 / 10	9 / 10	18
15	Dr. R.P. Narwaria	9 / 10	9 / 10	18
16	Dr. Jitendra Kumar	9 / 10	8 / 10	17
17	Akanchha Tiwari	6 / 10	7 / 10	13
18	Dr.Divya Chaturvedi	10 / 10	9 / 10	19

*[Signature]*

*[Signature]*

**Centre for Artificial Intelligence**

**Feedback Analysis of Peer-Learning Training Programme on “Artificial Intelligence and Machine Learning -Basics”**



**Additional comments/suggestions by the participants:**

- More content on Deep learning algorithms can be discussed
- The second spell of the course is essentially required.
- This training is very fruitful.
- Include Some ANN related applications and their coding.
- Real-world applications made the AI/ML basics program engaging and effective.
- Everything is very good.
- Overall lectures are informative.
- Peer-Learning Training Programme on AIML Basics was an exciting and invaluable opportunity for participants to delve into the cutting-edge realms of AI and ML.
- Everything is fine.

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## Some Glimpse of the Training Program

