

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)

CENTRE FOR ARTIFICIAL INTELLIGENCE

Date: 24.07.2023

ACTIVITY REPORT

Title of activity:	Peer Learning Training Programme on “ Artificial Intelligence and Machine Learning ”
Duration of activity:	17 July, 2023 to 21 July, 2023
Number of participants:	28
Brief Description of the activity:	<p>The training programme was conducted with an intent to equip the faculty members of the institute with the concepts and tools of Artificial Intelligence and Machine Learning. The contents delivered during the training programme are described briefly as:</p> <ul style="list-style-type: none">• Day-1: The purpose and learning outcomes of the training were clearly defined and discussed with the participants in the first session, later to which a detailed introduction to artificial intelligence: concepts, mechanisms, applications and other related aspects were discussed. In the afternoon session, the concepts of python programming were discussed using hands-on experience.• Day-2: In the forenoon session, uninformed and informed searching techniques used in AI were elaborated with a focus to solve real world problems. The afternoon session continued with the left out python programming concepts.• Day-3: The day-3 constituted the hands-on sessions on numpy and pandas (necessary libraries for implementing AI and ML techniques).• Day-4: The introduction to machine learning concepts, detailed understanding and implementation of Linear Regression, Decision Tree, ID3 and Random Forest algorithms was carried out (with hands-on experience).• Day-5: During the 5th day, concepts of Artificial Neural Network and various Clustering techniques were discussed with a detailed hands-on session on each. <p>During all the sessions of the training programme thorough hands-on practices, with real life problem solving, were carried out using Google Colab/ Jupyter/ Anaconda, to clearly explain the concepts of AI and ML. Each Day of the training programme ended with an assessment, which helped in understanding the learning levels of the participants.</p>
Name of the Trainer:	Mr. Mir Shahnawaz Ahmad
Objectives of the activity:	<ul style="list-style-type: none">• To provide the fundamental knowledge of Artificial Intelligence and Machine Learning techniques.• To solve real world problems using the concepts of AI and ML.
Outcomes of the activity:	<p>After completing the activity, the participants were able to:</p> <ul style="list-style-type: none">• define different Artificial Intelligence and Machine Learning techniques.• illustrate various tools and techniques used in AI and ML.• develop solutions to real world problems using AI and ML techniques.• evaluate the performance of different AI and ML systems.
Mode of the activity:	Offline in Data Science Lab, Dept. of IT



Mr. Mir Shahnawaz Ahmad

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Activity Schedule:

Date	Time	Session Contents
17 July, 2023 (Monday)	11:00 AM to 01:00 PM	Introduction to Artificial Intelligence
	02:00 PM to 04:00 PM	Hands-on session on Basics of Python Programming: Operators, Data Types and Control Statements. <i>Day-1 Assessment</i>
18 July, 2023 (Tuesday)	11:00 AM to 01:00 PM	Uninformed Searching Techniques used in Artificial Intelligence
	02:00 PM to 04:00 PM	Hands-on session on numpy package in python. <i>Day-2 Assessment</i>
19 July, 2023 (Wednesday)	11:00 AM to 01:00 PM	Informed Searching Techniques used in Artificial Intelligence
	02:00 PM to 04:00 PM	Hands-on session on pandas package in python. <i>Day-3 Assessment</i>
20 July, 2023 (Thursday)	11:00 AM to 01:00 PM	Introduction to Machine learning, Linear Regression (with hands-on)
	02:00 PM to 04:00 PM	Decision Tree, ID3 and Random Forest Classifier (with hands-on). <i>Day-4 Assessment</i>
21 July, 2023 (Friday)	11:00 AM to 01:00 PM	Classification using Neural Networks: Implementation and Working (with hands-on)
	02:00 PM to 04:00 PM	Clustering with K-means and DBSCAN (with hands-on). <i>Day-5 Assessment</i>

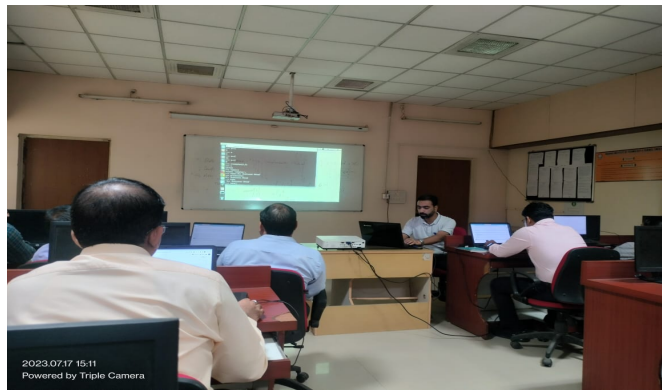


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Some Glimpses of the Activity:



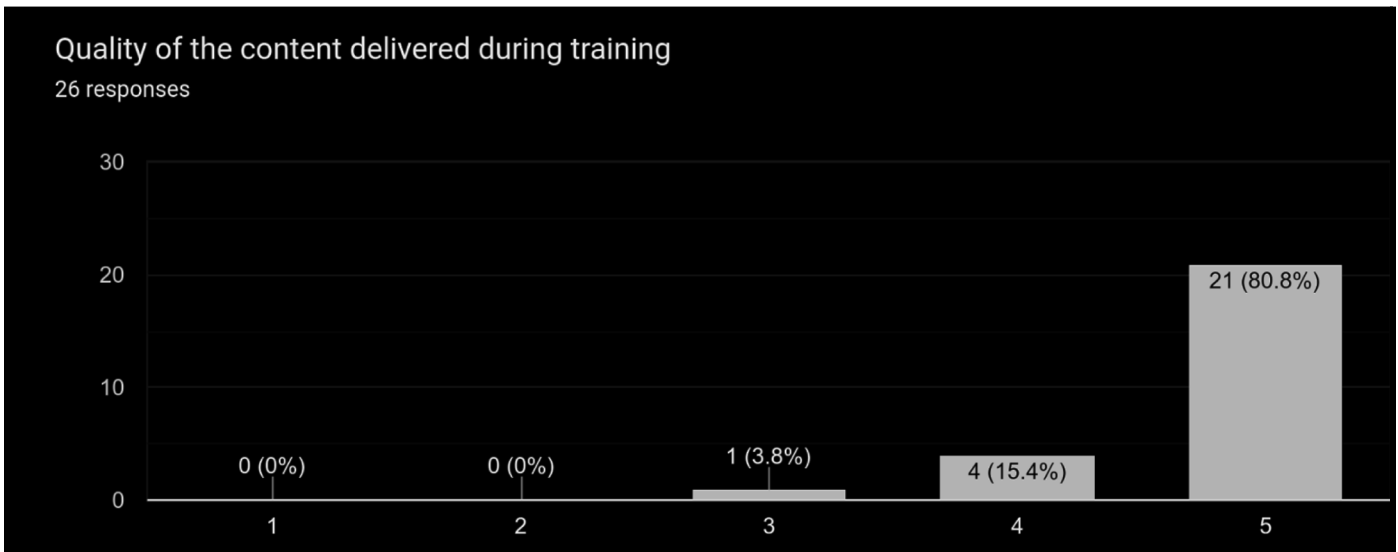
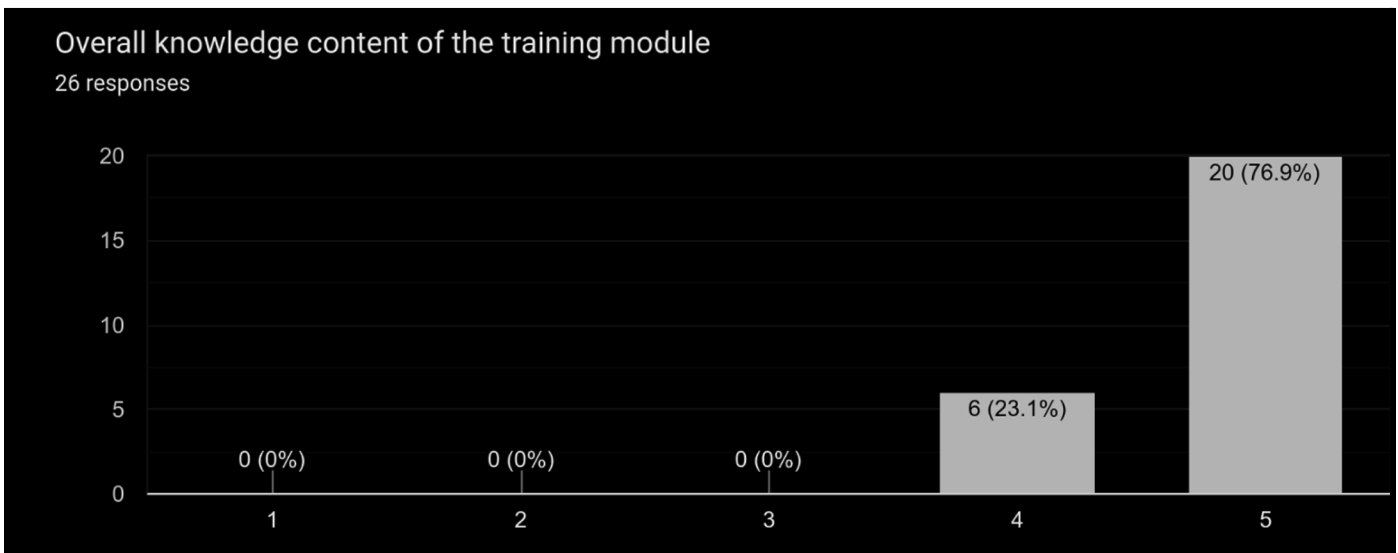
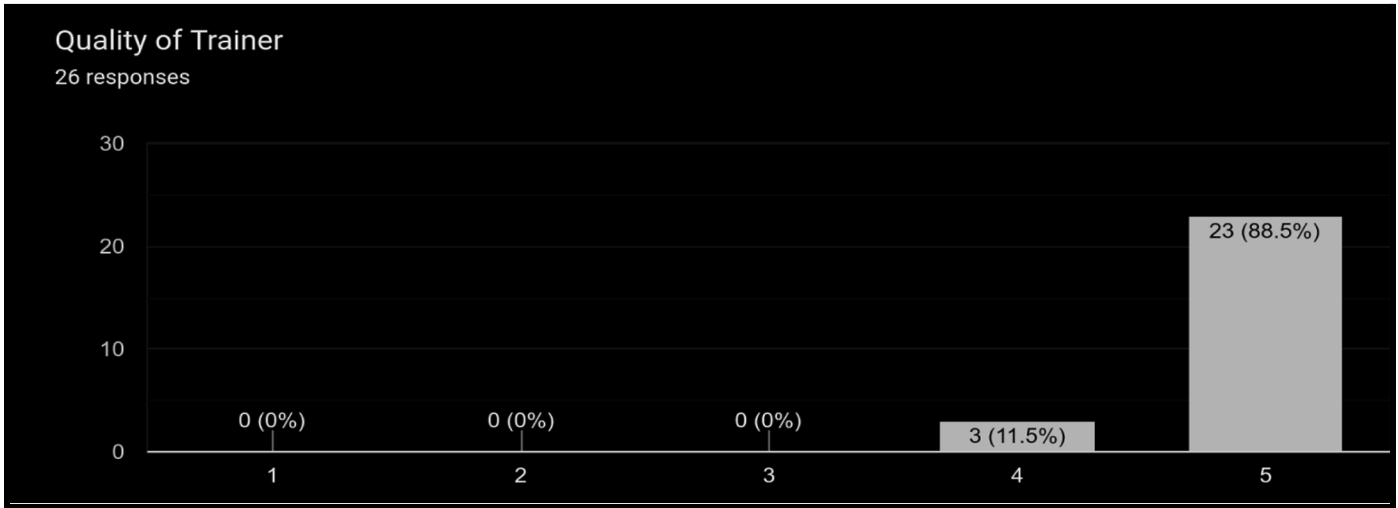
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Event Feedback Analysis:

(Feedback Indicators: 1 - Poor, 2 - Below Average, 3 - Average, 4 - Above Average, 5 - Excellent)



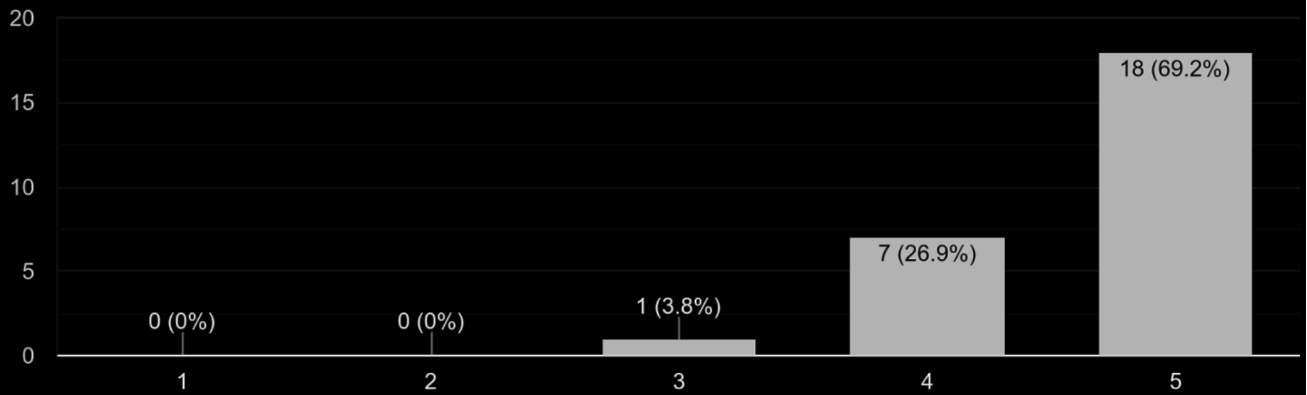
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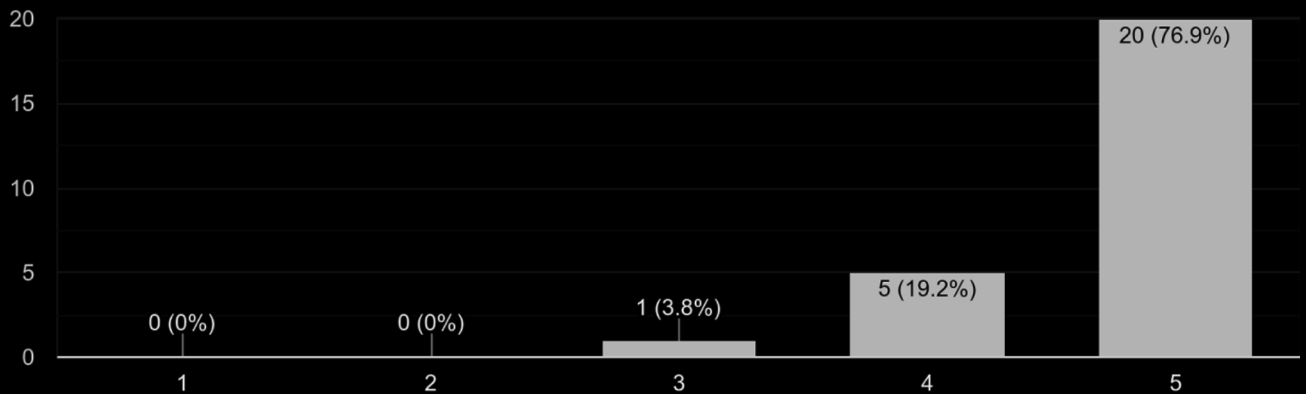
Time Management of the event

26 responses



How satisfied are you with this event?

26 responses



Overall feedback/suggestions:

- Excellent
- Great
- Thanks for such wonderful lecture delivery.. Mir Sir
- there should be more time for ML
- Nice
- The classes were well arranged with hands on.
- Perfectly organised. I will practice the coding & will discuss with you (whenever required). Keep organising such wonderful interactive knowledge based courses.
- Thanks & Regards
- Informative Session
- Excellent
- Nice sessions