



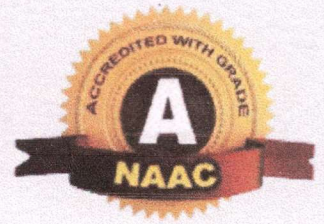
“येथे बहुतांचे हित”
MMIT

"Techno-Social Excellence"

**Marathwada Mitramandal's
Institute of Technology (MMIT)**
Lohgaon, Pune 47

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Department of Computer Engineering Organizes

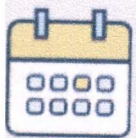
Seminar on Data Science & Artificial Intelligence

In Association
with



The Institution of
Engineers (India)

IEI
Student
Chapters



07th March 2024



1:30 PM onwards



Keynote Speaker

Offline Seminar

Location

Room No - E 103,
MMIT

**IANIT, Computer
Education**

www.mmit.edu.in | Pune



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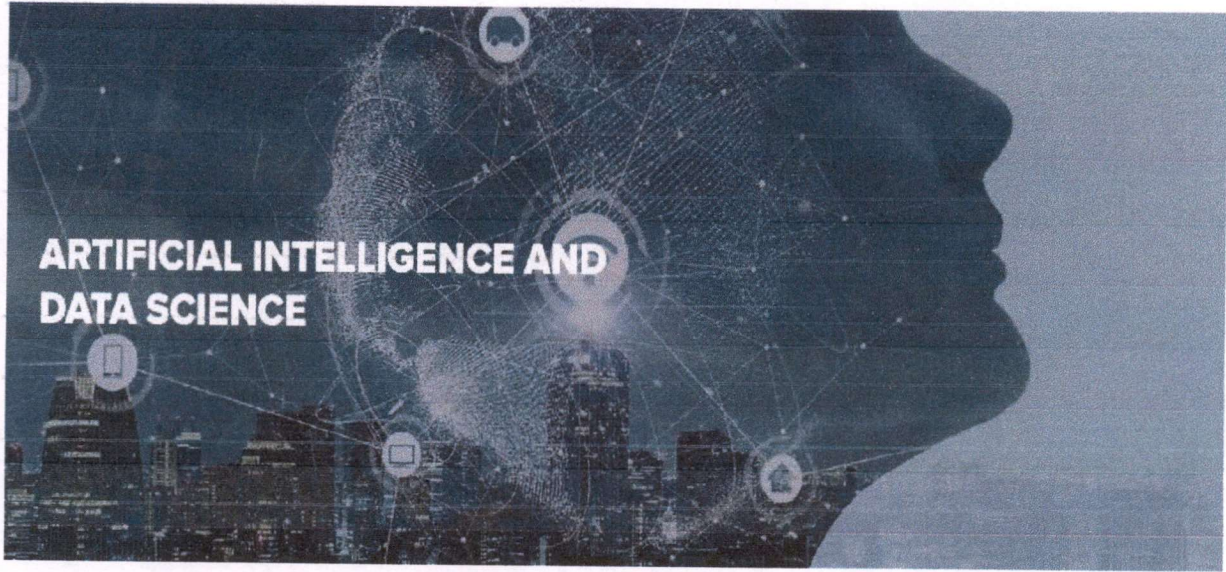


The Institution of
Engineers (India)

A SEMINAR ON

“Data Science and Artificial Intelligence”

07th March 2024



Organized By



Department of Computer Engineering

Marathwada Mitra Mandal's Institute of Technology, Lohgaon,
Pune

Approved by AICTE New Delhi, Recognized by DTE Maharashtra & Affiliated to Savitribai Phule Pune
NAAC “A” Accredited Institute



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The Institution of
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Head of Department, Computer Engineering, MMIT, Lohgaon, Pune

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Ms. Rohini D. Mahale
Mrs. Aparna S. Lahane
Assistant Professor, Computer Engineering, MMIT, Lohgaon, Pune

Speakers

Mr. Nitin Abraham
IANT, Computer Education



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Notice: "Seminar on Data Science and Artificial Intelligence"

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INSTITUTE OF TECHNOLOGY (MMIT)
Lohgaon, Pune- 411 047

Ref.No.: MMIT/Comp/2023-24/

Date: 07/03/2024

"Towards Ubiquitous Computing technology"
DEPARTMENT COMPUTER ENGINEERING
ACADEMIC YEAR 2023-24 (SEM-II)

NOTICE

All the students of TE-Computer and BE-Computer students are hereby informed that a seminar on **"Data Science and Artificial Intelligence"** is arranged on dated 07/03/2024 (Thursday). This seminar will help you to gain valuable insights on the skills & knowledge of Data science and Artificial intelligence.

Resource Person: Mr. Nitin Abraham

Date: 07/03/2024 (Thursday).

Time: 1:30 pm to 03:00 pm

Venue: E103

ATTENDANCE IS MANDATORY

Coordinator
Ms. R. D. Mahale
Mrs. A.S. Lahane

R.D. Mahale
A.S. Lahane

S.G. Rathod
HOD
Mr. S. G. Rathod



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The Institution of
Engineers (India)

Department of Computer Engineering (Academic Year 2023-24)

Date: 09/03/2024

“Data Science and Artificial Intelligence”

The Institutions of Engineers (IEI) organized Seminar on “**Data Science and Artificial Intelligence**” on 07th March 2024 at MMIT, Lohgaon, Pune. IEI hosted a session for students of computer departments to build awareness about Data Science and Artificial Intelligence. In this seminar, the basic concept of Artificial Intelligence and Data Science is a new branch of study which basically deals with scientific methodologies, processes and techniques drawn from different domains like statistics, cognitive science and computing and information science to extract knowledge from structured and unstructured data has been highlighted.

Introduction:

Data science combines statistical tools, methods, and technology to generate meaning from data. Artificial Intelligence takes this one step further and uses the data to solve cognitive problems commonly associated with human intelligence, such as learning, pattern recognition, and human-like expression.

Following topics are covered in the seminar

- IT Awareness
- What is Artificial Intelligence
- Important aspects of AI
- Career in Data Science and AI
- Roles in AI Career
- Why you should choose a career in data science
- Data science life cycle
- Job role in Data Science

Following are the areas where technology trend awareness skills play their significant role:

What is mean by artificial intelligence and data science?

Artificial intelligence is the process of creating machines that can think like humans, or at least mimic human behavior in some way. Data science is the application of techniques from statistics, mathematics, computer programming and other fields to solve real-world problems using information technology.



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Increasing opportunities with new ideas and new ventures. Technology trend awareness doesn't necessarily help with marketing alone. It increases opportunities to improve other areas as well. 'Lean manufacturing' is a good example of improvements through technology trend awareness skills. You can adopt new and trending technologies without necessarily having a technology-centric business, or start a new technology-centric venture, all for the sake of additional revenue opportunities.

Data Science Life Cycle

1. Identifying problems and understanding business: Discovering the answers for basic questions including requirements, priorities and budget of the project.
2. Data Collection: Collecting data from relevant sources either in structured or unstructured form.
3. Data processing: Processing and fine-tuning the raw data, critical for the goodness of the overall project.
4. Data analysis: Capturing ideas about solutions and factors that influence the data life cycle.
5. Data modelling: Preparing the appropriate model to achieve desired performance.
6. Model deployment: Executing the analyzed model in desired format and channel.

Career Outlook for Data Science

We are in the middle of the 4th Industrial Revolution (Industry 4.0), mostly driven by Data Science. This ever-growing field involves collecting, analysing, and exchanging lots of data! The demand for professionals for various data science jobs is at an all-time high, as is the supply gap.

- Connect data sources and automate acquisition mechanisms to update the information repository.
- Run processes that clean the obtained data and check for inconsistencies, eliminating redundant and erroneous data and generating summary information across different projects.
- Explore data to discover patterns, detect anomalies, test hypotheses, and verify assumptions through different data science tools, statistical formulas, and graphical representations.
- Apply different techniques like machine learning, statistical modelling, deep learning, data visualization, and artificial intelligence to draw insights and make predictions useful to achieve long-term and short-term business goals.
- Check the findings and predictions obtained in the previous step against reality and present them in a convincing way. This does not require scientific skills but rather the ability to communicate effectively.

Career Outlook for Artificial Intelligence

Artificial Intelligence Professionals train Artificial Intelligence systems to capture and process the data that provide solutions to various industrial, commercial, and professional activities. Since Artificial Intelligence is an area in full development, these professionals can research new applications to innovate. In the coming days, artificial intelligence professionals will collaborate with engineers, agricultural professionals, scientists, the banking system, doctors, biologists, HR professionals, IT systems, statistics, marketing, managers, economists, and even startups.



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Now the question arises: what are the on-job roles of artificial intelligence professionals? So some of the common job roles of artificial intelligence professionals are –

- Design, develop and implement Machine Learning techniques (automatic learning) for their applied use through predictive models, recommendation systems, scoring, and recognition of segments and clusters.
- Build analysis sequences using vigorous data libraries and can even build your own libraries for applications in different industries.
- Build neural networks and successfully lead Machine Learning projects that allow computer vision to be implemented and applied to image data.
- Apply AI to process audio and text from applications that allow, for example, automatic speech recognition, music synthesis, chatbots, automatic translation, and natural language understanding, among other possibilities.
- Use cyber security tools considering both the possibilities of attack and errors in the requirements, implementation, or deployment, as well as taking into account the confidentiality of the data supplied by the user.

The details of Seminar are as follows:

Time: 01:30 PM.

Date: 07th March 2024

Mode: Offline Mode

Resource Person: Mr. Nitin Abraham

IANT, Computer Education

About Program:

Objective:

One objective of exploring the world of Data Science and artificial intelligence is to develop practical skills in implementing and training DS and AI tools, difference between DS and AI, its life-cycle, also awareness about IT. By achieving this objective, individuals can become proficient in applying data science learning techniques to solve real-world problems in fields like computer vision, natural language processing, and reinforcement learning. This practical skill development is crucial for advancing careers in artificial intelligence, machine learning, and data science, as



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well as for contributing to research and innovation in the field of data science and artificial intelligence.

Activities performed:

In the session, the speaker shared information about basics of data science and artificial intelligence, its applications and tools, real time scenarios. Also given some insights on awareness of about the IT industry and career in DS and AI.

Total Duration of session is 2.00 hrs.

Total Participants: 45 Students & 02 Faculties.

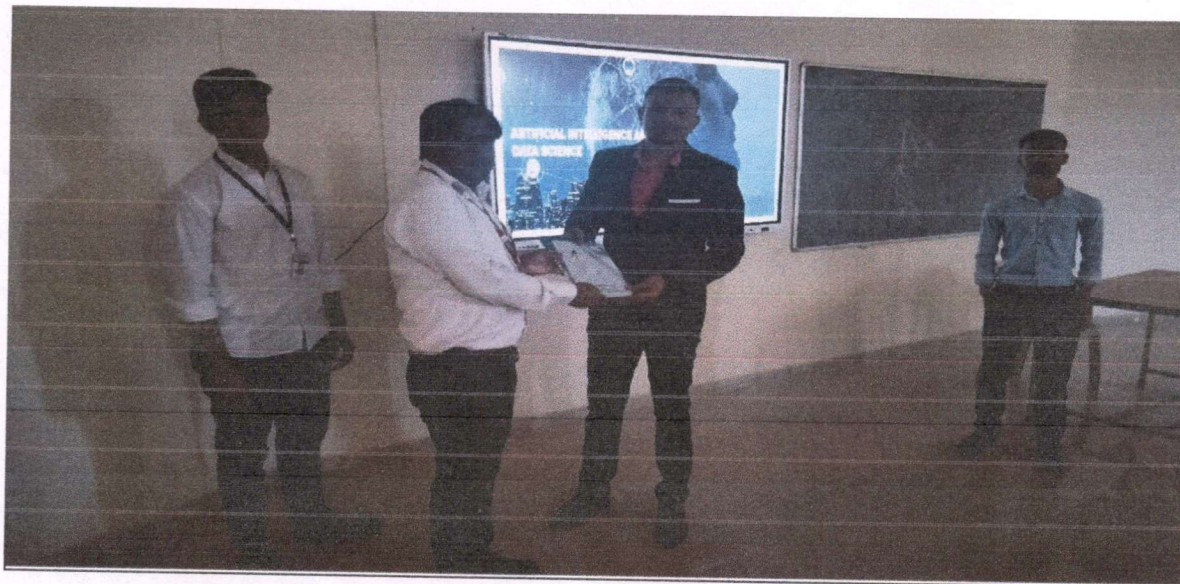
It was an interactive session where students' doubts were solved by the speaker.

Outcome:

Overall, the outcome of exploring the world of data science and artificial intelligence is a combination of theoretical understanding, practical skills development, problem-solving abilities, career advancement opportunities, and contributions to research and innovation and developments, all while considering ethical considerations in the application of DS and AI technologies.

List of students participated: 49

Glimpses of the Session:



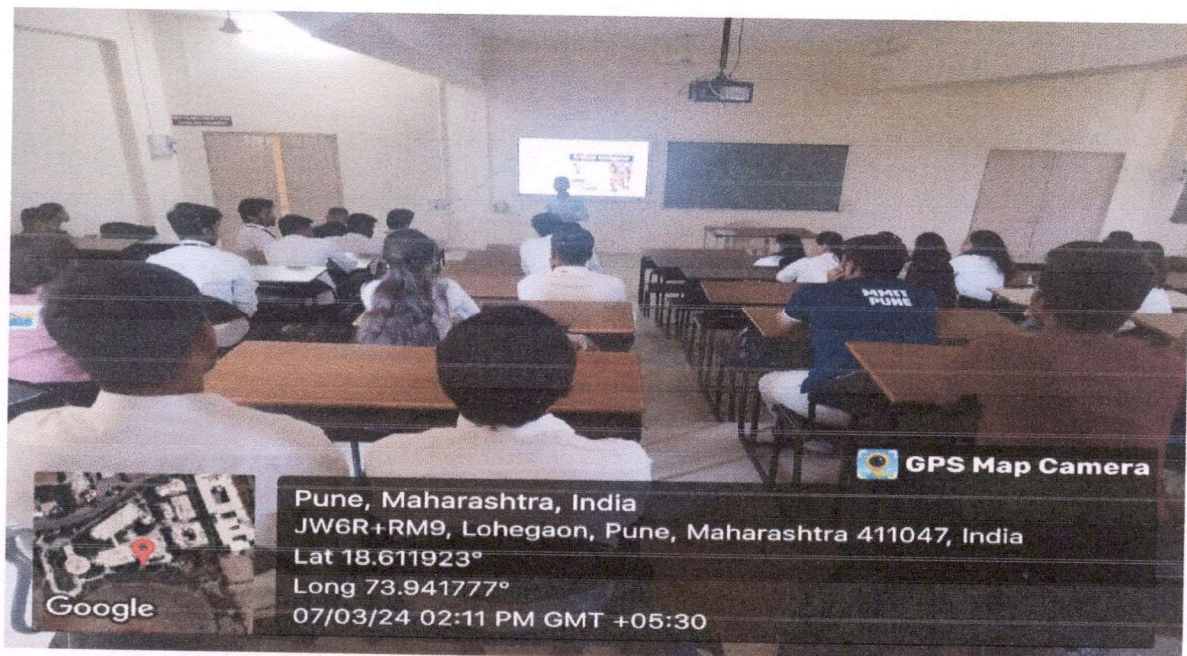


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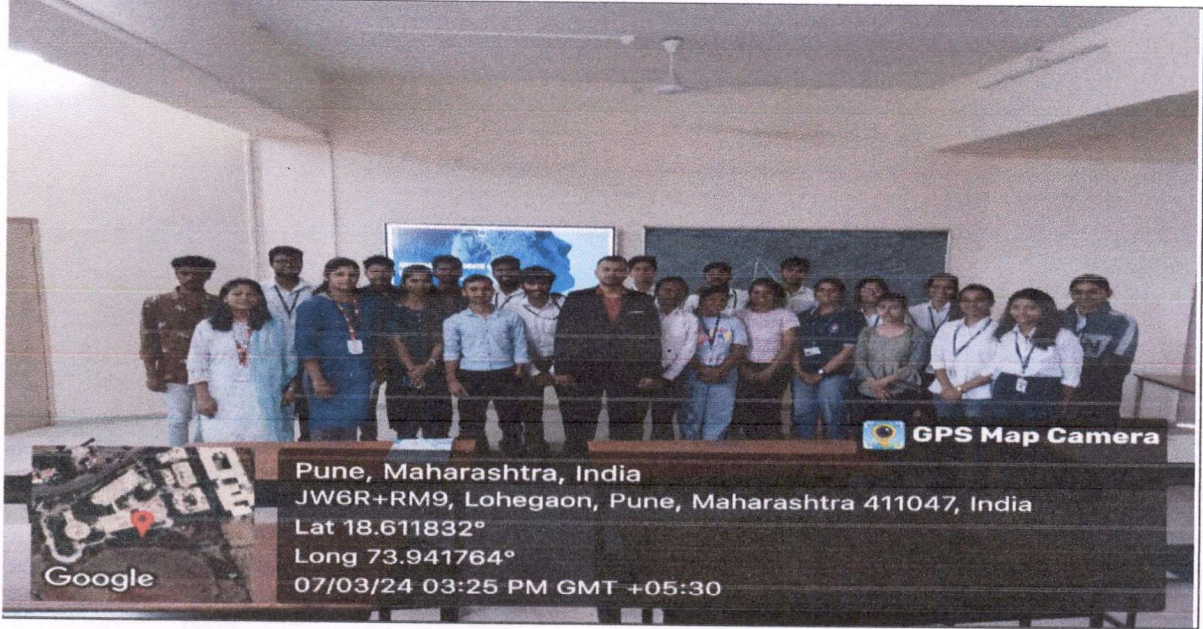


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Ms Rohini Mahale
Mrs. Aparna Lahane
Coordinator

Rohini Mahale
Aparna Lahane

S.G. Rathod
Dr. S.G.Rathod
Head of Department

Data Science and Artificial Intelligence Seminar Attendance

Sr.No.	Roll No.	Name	Sign
1.	TEB32	Vinit suresh Dhomse	<u>Vinit</u>
2.	SEB25	Saurabh Pawar	Saurabh
3.	SEB74	Maresh Diwan	<u>Maresh</u>
4.	SEB08	Anagha Nalawade	<u>Anagha</u>
5.	TEB17	Tyias Patil	<u>Patil</u>
6.	TEA-	Siddesh Abhang	<u>Siddesh</u>
7.	TEA-34	Namit Chidrawar	<u>Namit</u>
8.	TEB38	Sannhet Kakadwar	<u>Sannhet</u>
9.	TEA-34	Omkar Satane	<u>Omkar</u>
10.	SEB-69	Diksha Umesh Ingawale	<u>Ingawale</u>
11.	SEB-61	Rohan Zunjewar	<u>Rohan</u>
12.	TEB19	Jay Rathod	<u>Rathod</u>
13.	TEB20	Rushikesh Gonge	<u>Gonge</u>
14.	SEA52	Laxmikant Kulkarni	<u>LK</u>
15.	SEA10	Prathamesh Challiwar	<u>Prathamesh</u>
16.	SEB63	Pranjal kulal.	<u>Pranjal</u>
17.	SEB60	shubhashree langade	<u>S.S. Langade</u>
18.	SEB64	Rutuja Dangab	<u>Rutuja</u>
19.	SEB22	Himanshu Patil	<u>HPatil</u>
20.	TEB18	Pranav shinde	<u>Pranav</u>
21.	TEB34	Rohit Mohite	<u>Rohit</u>
22.	TEB26	Goku Arya	<u>Goku</u>
23.	SEB67	Priyanka Narode	<u>Priyanka</u>
24.	SEB68	Yashwanti Dake	<u>Y.S. Dake</u>
25.	SEB71	Dhruvika Bhavsar	<u>Dhruvika</u>

26	SEB65	Pratiksha Surse	Pratiksha
27	SEB39	Shruti Ardous	Shruti
28	TEB42	Sonalika Salunke	Sonalika
29	TEB63	Grityajali Karmble	Grityajali
30	TEB67	Manasi Kande	Manasi
31	TEA53	Janhuve Ahire	Janhuve
32	SEB24	Shruti S. Patil	R.f.
33	SEB33	Rode Riton Loharu	Rode
34	SEB26	Phulke Akanksha Uday	Akanksha
35	SEB66	Patel Aashrya Prakash	Aashrya
36	SEB72	Ajinkya Shivaji Giri	Ajinkya
37	SEB62	Prathmesh Vinaykar Pawar	Prathmesh
38	SEB71	Narayan Bhimdeo Bhojre	Narayan
39	SEB75	Sankalp S. Indish	Sankalp
40	TEB46	Jay Tawade	Jay
41	SEB40	Aniket Shelar	Aniket
42	TEB60	Prasad Pund	Prasad
43	TEB25	Omkar N. Karole	Omkar
44	TEB47	Deviang Mungar	Deviang
45	TEB03	Anushka Dhandhni	Anushka
46	TEB05	Rachal Keriya	Rachal
47	TEB06	Gayatri Gaikwad	Gaikwad
48	TEB08	Harshada Kulkarni	Kulkarni
49	TEB33	Shruti Vedpathak	Shruti