



Artificial Intelligence

AI for Everyone



2 Months



16 Hours



Assignments



100+

COURSE OUTLINE

Lecture-1

Introduction to Artificial Intelligence:

- What is AI?
- Where we used?
- Importance and Application of AI
- Examples of AI in daily life

Lecture-2

Introduction to Prompt Engineering:

- What is Prompt Engineering?
- Importance of prompts in AI models
- AI Tools

Practical:

- How to use these tools.

Lecture-3

Basics of Python:

- What Programming is?
- Introduction of Python
- Basic syntax and data types
- Quiz

Practical:

- Writing your first Python program to print "Hello, World!"

Lecture-4

Python:

- Master conditional statements (if, else)
- Basic syntax and data types

Practical:

- Writing a program to use conditional statements.

Lecture-5

Python:

- Loops (for, while)
- Basic syntax and data types

Practical:

- Writing a program to use loops.

Lecture-6

Python:

- Functions and Modular Programming
- Assignment

Practical:

- Create simple functions.

COURSE OUTLINE

Lecture-7

Basics of Data:

- What is Data?
- Why is AI needed?
- Overview of Datasets

Practical:

- Learn to get data from websites for projects.

Lecture-8

Basics of Exploratory Data Analysis (EDA):

- Visualization Techniques for EDA
- Detecting and Handling Outliers
- Mini Project

Practical:

- Explore how EDA works.

Lecture-9

Basics of Machine Learning:

- What is Machine Learning?
- Where is it used?
- Types of Machine Learning: Supervised vs. Unsupervised

Practical:

- Explore how machines learn with guidance (Supervised) or on their own (Unsupervised).

Lecture-10

Basics of Machine Learning:

- What are ML Models?
- Importance of ML Models

Practical:

- Exploring the world of machine learning models and understanding their vital role in solving problems.

Lecture-11

Machine Learning:

- ML models (Classification vs Regression)
- Presentation

Practical:

- Exploring how machines make decisions (Classification) and predictions (Regression)

Lecture-12

Machine Learning:

- ML models (Training ML Regression model)
- ML models (Training ML Classification model)

Practical:

- Discovering how machines predict numbers and solve real-world problems with models

COURSE OUTLINE

Lecture-13

Deep Learning:

- Introduction to Deep Learning
- Why Deep Learning
- Difference between ML and Deep Learning
- Applications of Deep Learning

Practical:

- Exploring how Deep Learning (DL) works and its real-life applications

Lecture-14

Deep Learning:

- Overview of Neural Networks
- What is an Artificial Neuron?
- Quiz

Practical:

- Writing a program to use PyTorch and create a simple Neural Network (NN)

Lecture-15

- **Final Project** with Presentation

Objective:

- Implement all the concepts studied during the course.

Lecture-16

- **Final Project** with Presentation

March
2025

Your Learning Path

Live Sessions

Assigments

Quiz

Project

 AI INSTITUTE
OF PAKISTAN

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 Google Meet

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LEARNING & ACTIVITY CALENDAR

SUN	MON	TUE	WED	THU	FRI	SAT
02	03	04	05	06	07	08
				<div>Live Session</div> <div>10:30 PM</div>	<div>Live Session</div> <div>10:30 PM</div>	
09	10	11	12	13	14	15
<div>Assignment</div>		<div>Assignment</div>		<div>Live Session</div> <div>10:30 PM</div>	<div>Live Session</div> <div>10:30 PM</div>	<div>Quiz</div>
16	17	18	19	20	21	22
	<div>Assignment</div>			<div>Live Session</div> <div>10:30 PM</div>	<div>Live Session</div> <div>10:30 PM</div>	
23	24	25	26	27	28	29
<div>Assignment</div>		<div>Assignment</div>		<div>Holiday</div>	<div>Holiday</div>	
30	31					

Note: "The dates and times of the classes and assignments mentioned in this timetable are subject to rescheduling in case of emergencies or unforeseen circumstances."

April
2025

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		01	02	03	04	05
				<div>Holiday</div>	<div>Holiday</div>	
06	07	08	09	10	11	12
				<div>Live Session</div>	<div>Live Session</div>	
				<div>08:00 PM</div>	<div>8:00 PM</div>	<div>Quiz</div>
13	14	15	16	17	18	19
	<div>Mini Project</div>			<div>Live Session</div>	<div>Live Session</div>	
				<div>08:00 PM</div>	<div>08:00 PM</div>	
20	21	22	23	24	25	26
				<div>Live Session</div>	<div>Live Session</div>	
<div>Assignment</div>		<div>Assignment</div>		<div>08:00 PM</div>	<div>08:00 PM</div>	
27	28	29	30			

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May
2025

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04	05	06	07	08	09	10
				<div>Live Session</div> <div>🕒 08:00 PM</div>	<div>Live Session</div> <div>🕒 08:00 PM</div>	<div>Final Project</div>
11	12	13	14	15	16	17
18	19	20	21	22	23	24
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