



2 Days Workshop On ChatGPT and Data Science using AI

BY TECH BOOSTER

ENROLL NOW AND TAKE A STEP TOWARDS YOUR DREAM CAREER

COURSE CONTENT.....DAY 1



Session 1: Introduction to Data Science & AI

Topics Covered:

- Basics of Generative AI & Large Language Models
- Introduction to AI, Machine Learning & Data Science
- How ChatGPT and ML models work together
- Prompt Engineering – Beginner Level
- Data-aware prompts & structured questioning
- Hands-on: Text analysis, summaries & insights from data

Session 2: Python for Data Science (Hands-On)

Tools:

- Python
- Jupyter Notebook / Google Colab

Hands-On:

- ✓ Load a student dataset
- ✓ Print summary statistics
- ✓ Filter top performers

Session 3: Exploratory Data Analysis (EDA) (2 Hours)

Concepts:

- Mean, Median, Mode
- Correlation
- Data cleaning
- Visualization using Matplotlib

Practical Task:

- ✂ Analyze student performance dataset
- ✂ Find correlation between Math & Reading scores
- ✂ Create bar graph and heatmap

COURSE CONTENT.....DAY 1 Contd.



Use **ChatGPT** to:

- Generate Python code
- Debug errors
- Explain complex concepts

Session 4: ChatGPT for Data Scientists

Learn:

- Prompt engineering basics
- How to write better prompts
- Using ChatGPT for:
 - Code generation
 - Report writing
 - Project ideas
 - Resume building

Live Demo:

Turn dataset analysis into:

-  Auto-generated report
-  Insight summary



COURSE CONTENT.....DAY 2



DAY 2 – Machine Learning + AI Projects

Session 5: Introduction to Machine Learning

Topics:

- What is Machine Learning?
- Supervised vs Unsupervised Learning
- Regression vs Classification
- Real-world examples

Session 6: Build Your First ML Model

Using: Scikit-learn

Practical:

- ✓ Linear Regression model
- ✓ Predict student overall score
- ✓ Train-Test split
- ✓ Accuracy evaluation

Session 7: AI + ChatGPT Mini Project

Students choose one:

- ◆ Option 1: AI Student Performance Predictor
- ◆ Option 2: ChatGPT-powered Study Assistant
- ◆ Option 3: Resume Analyzer using AI

Project work and Certificate Distribution

