DataTeach.ai

Affordable AI Education

CAREER CATALYST

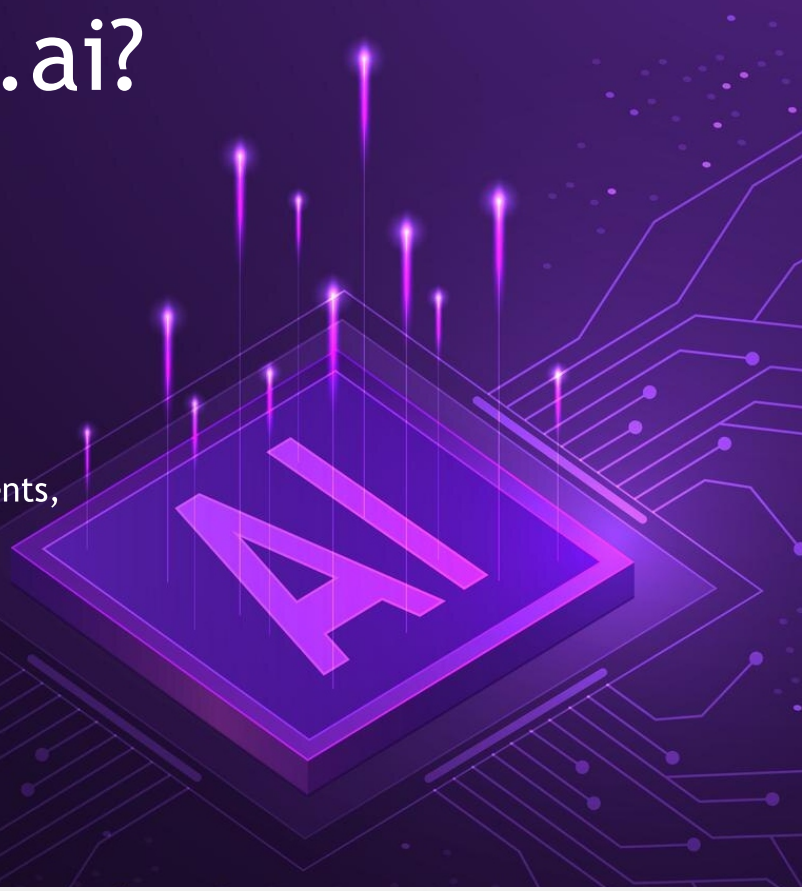
From campus to career, faster

A placement focused Data, Analytics & AI skill program.

www.datateach.ai

Why DataTeach.ai?

- Training by industry experts
- Industry-oriented curriculum
- Live instructor-led session
- Mentorship
- Life-time LMS access
- Daily assessments, module-wise assessments, weekly assessments, monthly grand test
- Internships
- Resume & portfolio building
- Mock interviews
- 100% placement assistance



OUR PROGRAMS

Data Science + Generative AI

Data Analytics + Generative AI

DURATION
24 weeks (6 months)

WEEKLY LOAD
10 hours

TOTAL HOURS
240 + live training hours

OUTCOME
Entry-level roles in

- Data Analyst
- Python Developer
- Jr. Data Scientist
- AI Engineer (Fresher)
- ML Engineer
- GenAI Engineer

Data Science with Gen AI

Month 1 : Programming & Foundations

MODULE 1 :

Python Programming (Weeks 1-4)

GOAL :

Build strong coding & logical thinking skills

TOPICS :

- Python basics, variables, data types
- Conditional statements, loops
- Functions & recursion
- List, tuple, set, dictionary
- Strings
- File handling
- Exception handling
- OOPs in Python
- Coding best practices

HANDS-ON PROJECTS

- Student result management system
- Employee payroll system
- ATM simulation program
- Mini library management tool

OUTCOME:

Write clean Python code, Crack Python coding rounds

Month 2 : Data Handling & Business Tools

MODULE 2 :

Excel for Data Analysis (Weeks 5-6)

TOPICS :

- Advanced formulas (VLOOKUP / XLOOKUP, IF, COUNTIF)
- Pivot tables & charts
- Data cleaning techniques
- Dashboards & reporting
- Business use cases

PROJECT :

- Sales performance dashboard

MODULE 3 :

SQL for Data Analysis (Weeks 7–8)

TOPICS :

- Database concepts
- SELECT, WHERE, GROUP BY
- Joins (Inner, Left, Right, Outer)
- Subqueries
- Window functions
- Real-world query scenarios

PROJECT :

- E-commerce database analysis
- Employee performance SQL case study

OUTCOME: Ready for SQL rounds

Month 3 : Data Analysis & Statistics

MODULE 4 :

Data Analysis with Python (Weeks 9–10)

TOOLS :

NumPy, Pandas, Matplotlib, Seaborn, Regex

TOPICS :

- Data cleaning & preprocessing
- Exploratory Data Analysis (EDA)
- Data visualization
- Feature engineering
- Handling missing data

PROJECTS :

- Zomato / Netflix / IPL data analysis project

MODULE 5 :

Statistics for Data Science (Weeks 11-12)

TOPICS :

- Descriptive statistics
- Probability
- Distributions
- Hypothesis testing
- Correlation & regression
- A/B testing

PROJECT :

- Customer behavior statistical analysis report

OUTCOME: Strong analytical thinking, Confidence in DS interviews

Month 4 : Visualization & Machine Learning

MODULE 6 :

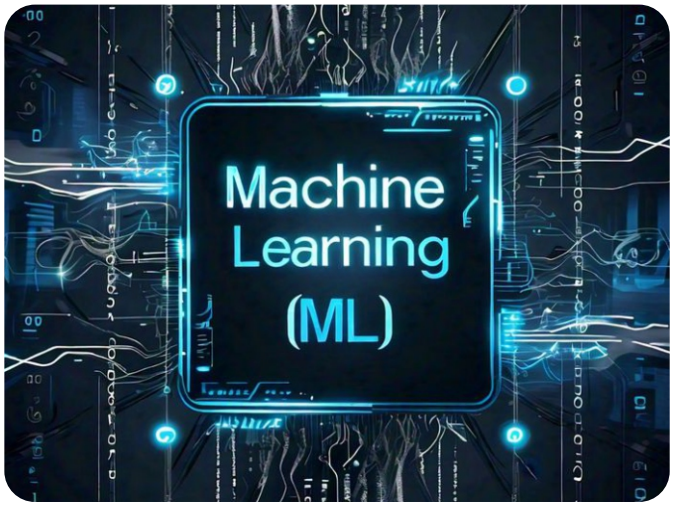
Power BI (Weeks 13-14)

TOPICS :

- Power BI interface
- Data modeling
- DAX basics
- Interactive dashboards
- Business storytelling

PROJECT :

- Executive business insights dashboard



MODULE 7 :

Machine Learning (Weeks 15-16)

TOPICS :

- ML workflow
- Supervised & unsupervised learning
- Regression & classification
- Decision trees & random forest
- KNN, Naive Bayes
- Model evaluation

PROJECT :

- 5 projects on ML

OUTCOME: End-to-end ML project confidence

Month 5: Deep Learning & NLP

MODULE 8 :

Deep Learning (Weeks 17–18)

TOOLS :

TensorFlow / Keras

TOPICS :

- Neural Networks
- Backpropagation
- ANN & CNN
- Activation Functions
- Model Optimization

PROJECT :

- Handwritten Digit Recognition (MNIST)

MODULE 9 :

Natural Language Processing (Weeks 19–20)

TOPICS :

- Text Processing
- TF-IDF, Word Embeddings
- Sentiment Analysis
- Text Classification
- Chatbot Basics
- BERT Model (Basics)

PROJECT :

- Movie Review Sentiment Analyzer
- Resume Screening NLP Model

Month 6 : Computer Vision & Generative AI

MODULE 10 :

Computer Vision (Weeks 21-22)

TOPICS :

- Image processing basics
- OpenCV
- Face detection
- Object detection & tracking
- CNN for vision tasks

PROJECT :

- Face recognition-based attendance system
- Object detection & counting in live video

MODULE 11 :

Generative AI (Weeks 23-24)

TOPICS :

- LLM fundamentals
- Prompt engineering
- Transformers
- OpenAI / open-source models
- RAG concepts
- AI agents overview

PROJECT :

- Build a simple Gen-AI application using prompts and an LLM

Final Outcomes (Job-Ready Guarantee)

By the end of Career Catalyst, students will have:

- 15+ real-world projects
- Strong GitHub portfolio
- Resume & LinkedIn optimization
- Mock interviews & aptitude prep
- Industry-level problem-solving mindset

Roles students can apply for:

- Python Developer
- Data Analyst
- Junior Data Scientist
- Business Analyst
- AI/ML Engineer
- ML Engineer (Fresher)
- DL / CV Engineer (Fresher)
- GenAI Engineer

DataTeach.ai

Affordable AI Education

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