Techadem

DATA SCIENCE

PROFESSIONAL PROGRAM

Structured training focused on data analysis, machine learning, and real-world problem solving.

Delivery: Physical & Online

Techademhq.com

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COURSE OVERVIEW

This program is designed for individuals who want to move beyond basic data analysis into predictive modeling and machine learning.

This course is suitable for:

- ✓ Individuals with basic knowledge of Excel or data analysis.
- ✓ Graduates in science, engineering, economics or related fields.
- ✓ Professionals transitioning into data roles.
- ✓ Anyone willing to learn Python and statistics.

You should be Comfortable with basic mathematics and logical thinking.

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MODULES 1-3

1) Foundation of Data science

2) Python for Data Analysis

3) Statistics for Data Science

01

- ✓ What is Data Science
- ✓ Role of a Data Scientist
- ✓ Data Types and Structures
- ✓ Introduction to Python
- ✓ Setting up development environment

02

- ✓ Variables and Data Types
- ✓ Loops and Functions
- ✓ Working with Pandas
- ✓ Data cleaning in Python
- ✓ Exploratory Data Analysis

03

- ✓ Descriptive Statistics
- ✓ Probability Basics
- ✓ Distributions
- ✓ Hypothesis Testing
- ✓ Correlation vs Causation

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MODULES 4-6

4) Data Visualization

5) Introduction to Machine Learning

6)Advanced Macine learning Concepts

04

- ✓ Matplotlib and Seaborn
- ✓ Building Insightful Charts
- ✓ Interpreting Visual Data
- ✓ Storytelling with Data

05

- ✓ Supervised vs Unsupervised Learning
- ✓ Regression Models
- ✓ Classification Models
- ✓ Model Evaluation Metrics

06

- ✓ Feature Engineering
- ✓ Model Tuning
- ✓ Cross Validation
- ✓ Introduction to Clustering
- ✓ Real Case Study

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CAPSTONE PROJECT

Students will complete a full end-to-end project.

Portfolio-ready project included.

- Define business problem
- Clean and prepare dataset
- Build model
- Evaluate performance
- Present insights

WHAT YOU WILL BE ABLE TO DO

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After completing this program you will be able to:

- Analyze large datasets using Python
- Evaluate model performance
- Apply statistical reasoning
- Extract business Insights
- Build predictive models
- Create portfolio-ready projects

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MENTORSHIP & INTERNSHIP

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- ✓ Weekly project review
- ✓ Model debugging sessions
- ✓ Career Guidnace
- ✓ CV and LinkedIn review
- ✓ Interview preparation

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- ✓ Real-world case simulations
- ✓ Collaborative data projects
- ✓ Portfolio refinement
- ✓ Performance feedback

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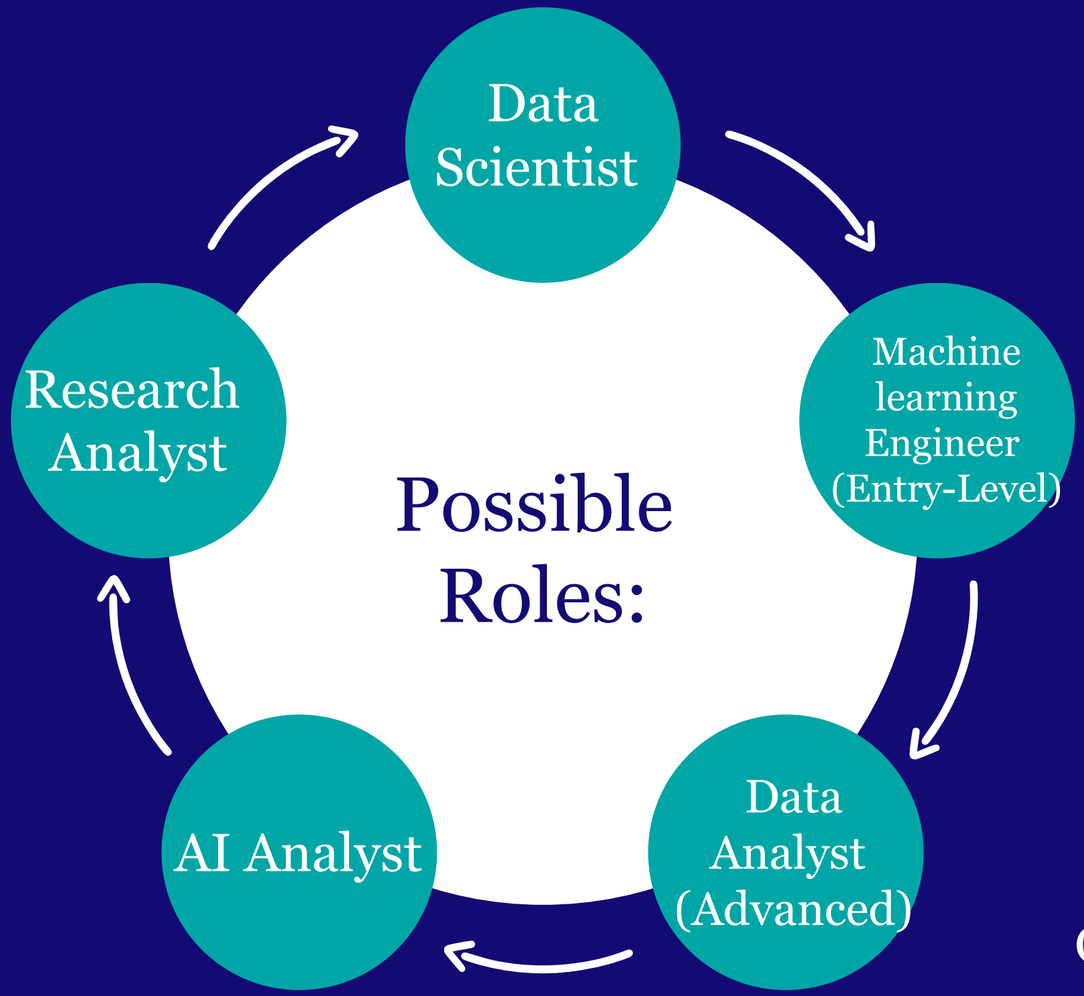
LEARNING STRUCTURE

Structured progression from fundamentals to applied machine learning.

CAREER OPPORTUNITIES



Growth increases significantly with project depth and experience.

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STUDENT REVIEWS

Grace Adeola
Data Analyst

I was honestly skeptical because I've tried other trainings before, but this one felt different from day one. They teach with patience and make sure everyone understands before moving on.

★★★★★

Kelechi Eze
Data Analyst

The community makes learning easier because you're surrounded by people on the same journey. You don't feel alone trying to figure things out.

★★★★★

Chinedu Okafor
Cybersecurity Analyst

I joined thinking it would be another regular class, but the structure and delivery surprised me. Everything connects logically and you can see how it applies in real work.

★★★★★

Amaka Obi
Data Analyst

Everything was explained step by step in a way that made sense. You don't just memorize tools, you understand why you're using them.

★★★★★

Sadiq Abdullahi
Cybersecurity Analyst

I appreciated how real the conversations were about tech careers and opportunities. Nothing felt sugarcoated or misleading.

★★★★★

Deborah Akinwale
Cybersecurity Analyst

They focus on practical skills you can actually use immediately. It doesn't feel like theory without direction.

★★★★★

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