

DATA SCIENCE & DATA ANALYTICS

Powered by AI

Course Objective

The Data Science & Analytics program at eHack Academy is an industry-oriented training designed to help you master data analysis, machine learning, and AI-driven decision-making by transforming raw data into actionable insights. It focuses on teaching practical skills in Python, statistical analysis, data visualization, predictive modelling, and tools used in real-world analytics, with hands-on projects and AI-powered learning to prepare you for careers as data analysts, data scientists, and AI specialists.

Earn Global Certification 🏅



DSDA Data Science & Data Analytics with AI

6 MONTHS

Duration

240+

Training Hours

100% JOB

Assistance

Course Syllabus

Module 01

Python Programming Fundamentals -

Build a strong foundation in Python programming covering syntax, data types, control structures, functions, and object-oriented concepts.

What you'll learn:

- Python Basics
- Data Structures
- Functions
- OOP Concepts
- File Handling

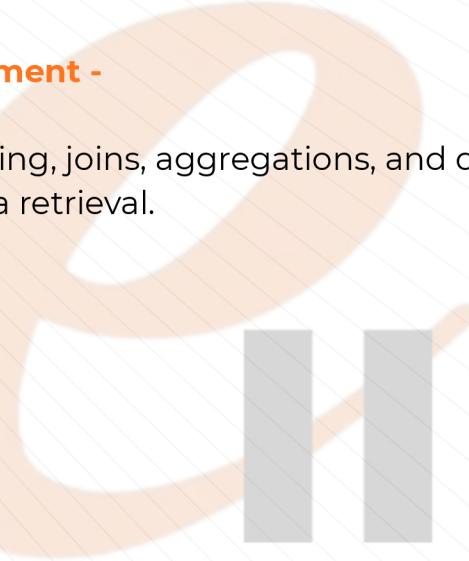
Module 02

SQL & Database Management -

Master SQL for data querying, joins, aggregations, and database design principles for efficient data retrieval.

What you'll learn:

- SQL Fundamentals
- Joins & Subqueries
- Aggregations
- Database Design
- Query Optimization



Module 03

Excel & Advanced Analytics -

Learn advanced Excel techniques for data analysis including pivot tables, charts, and complex formulas.

What you'll learn:

- Pivot Tables
- VLOOKUP & XLOOKUP
- Data Visualization
- Statistical Functions
- Macros Basics

Module 04

Data Analysis with Pandas & NumPy -

Master data manipulation, cleaning, and exploratory data analysis using Python's most powerful libraries.

What you'll learn:

- NumPy Arrays
- Pandas DataFrames
- Data Cleaning
- EDA Techniques
- Data Transformation

Module 05

Machine Learning Foundations -

Learn supervised and unsupervised machine learning algorithms, model training, and evaluation techniques.

What you'll learn:

- Supervised Learning
- Unsupervised Learning
- Model Evaluation
- Feature Engineering
- Model Deployment

Module 06

Power BI & Dashboard Creation -

Create interactive business intelligence dashboards and reports for data visualization and storytelling.

What you'll learn:

- Power BI Interface
- Data Modeling
- DAX Functions
- Interactive Reports
- Dashboard Design

Module 07

Industry Projects & Capstone -

Apply your skills on real-world industry projects including fraud detection, price prediction, and customer analytics.

What you'll learn:

- Vehicle Sales Analysis
- Credit Card Fraud Detection
- Price Prediction
- Customer Segmentation
- Final Presentation

