AI 360 – www.ai360.ltd

Email: ai360ltd@gmail.com

Contact: +91 996357199

AI 360 Course Design - Data Science

Course Title: Data Science PowerTrack

Duration: 120 Hours (12 Weeks x 10 Hours per Week)

Format: Hybrid (Online) + Project-driven Labs + Hands-on projects

Target Audience: College Students, Working Professionals, Career Switchers

Prerequisites: Basic math and logic; no prior coding experience required

Course Fee: ₹80,000 (includes all modules, mentoring, certification, and project review)

Course Overview:

This comprehensive 120-hour Data Science PowerTrack takes learners from beginner-level foundations to advanced AI-driven decision-making. The course includes real-world case studies, capstone projects, and global free certifications from Microsoft and Google to build credibility and job readiness.

Module Breakdown (Week-wise)

Week 1-2: Python for Data Science & Data Handling

- Core Python Programming + Libraries (NumPy, Pandas, Matplotlib)

- Data types, file operations, functions, data visualization

- Jupyter Notebooks, GitHub basics

- Mini Project: Exploratory Data Analysis (EDA) on COVID/Netflix dataset

Week 3-4: Statistics, Probability & Data Wrangling

- Descriptive & Inferential Statistics

- Probability distributions, central tendency

- Hypothesis Testing, Correlation, Sampling

- Hands-on: Real-world survey & dataset cleaning exercises

Week 5-6: Machine Learning Algorithms (Supervised & Unsupervised)

- Regression, Classification, Clustering, Dimensionality Reduction

- Model evaluation metrics (accuracy, precision, recall, AUC)

- Tools: Scikit-learn, MLflow, joblib

- Mini Project: Credit Risk Prediction / Customer Segmentation

Week 7-8: Advanced ML, Time Series & NLP

- Ensemble Models (Random Forest, XGBoost, AdaBoost)

- Feature Engineering + Hyperparameter Tuning

- Time Series Forecasting with ARIMA, Prophet

- Introduction to NLP (TF-IDF, NER, Sentiment Analysis)

- Mini Project: Product Review Classifier

Week 9: Big Data & Cloud Tools

- Hadoop, Spark, and PySpark Introduction

- BigQuery Basics

- Cloud Platforms: Google Cloud, Azure ML Studio

- Project: Build and query large datasets using BigQuery

Week 10: Data Visualization & BI Tools

- Tableau, Power BI Looker hands-on

- Data Storytelling Techniques

- Creating dashboards, filters, drilldowns

- Mini Project: Business KPI Dashboard (Finance/Retail domain)

Week 11: Capstone Project Week

- Choose from 3 themes: Healthcare Analytics, E-Commerce Trends, AI in Education

- Mentored project building (Python + SQL + Visualization)

- Final Review & Peer Evaluation

Week 12: Certification, Resume Building & Interview Prep

- Build a professional LinkedIn + GitHub presence

- Resume, mock interviews, and use case presentations

- Global Free Certifications:

  - **Google: Data Analytics Professional Certificate**

  - **Microsoft: Azure Data Fundamentals (DP-900)**

  - **Google Cloud Skill Badges**

- Graduation Day + Certificate from AI 360 + Placement Support

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Tools & Platforms

- Python, Pandas, NumPy, Scikit-learn, Spark, BigQuery

- Power BI, Tableau, SQL, Matplotlib, Seaborn

- Jupyter Notebooks, VS Code, GitHub

- Google Cloud Platform, Microsoft Azure

Certifications Included (Free or Assisted)

- Google Data Analytics Certificate (via Coursera – free access via AI 360 partnership)

- Microsoft Azure DP-900 Certification (voucher supported)

- Google Cloud Skill Badges (BigQuery, ML APIs)

- AI 360 Verified Certificate (Downloadable + Shareable)

Why Choose This Course

☑ Covers full data science lifecycle: from raw data to insights
☑ Includes AI, Big Data, BI, and Cloud elements
☑ Built-in support for real-world projects and certification
☑ Tailored for both job seekers and professionals in upskilling mode