

Data Science, Machine Learning & Generative AI Masterclass

Statistical Modeling, Predictive Analytics, Deep Learning & LLM Integration

Course Duration: 6 Months (Intensive Lab + Live Client Capstone Projects)	Target Audience: Engineers, Math/Statistics Graduates, Data Analysts, Working Professionals
Certification: Govt & Industry Recognized	Placement Support: 100% Mock & Interview Drives

Curriculum & Detailed Module Breakdown

Module	Topics & Practical Competencies	Duration
Module 1	Python for Data Science: Advanced NumPy, Pandas vectorization, data cleaning, wrangling & missing value imputation	3 Weeks
Module 2	Data Visualization: Matplotlib, Seaborn, Plotly interactive charts, exploratory data analysis (EDA) & storytelling	2 Weeks
Module 3	Applied Statistics & Probability: Descriptive/Inferential stats, Hypothesis testing, A/B Testing, Chi-square & ANOVA	3 Weeks
Module 4	Business Intelligence & SQL: Complex SQL Joins, Window Functions, Microsoft Power BI DAX formulas & executive dashboards	4 Weeks
Module 5	Machine Learning: Supervised learning (Linear/Logistic Regression, Decision Trees, Random Forests, XGBoost) & Unsupervised (K-Means, PCA)	6 Weeks
Module 6	Deep Learning & NLP: Neural networks with PyTorch/TensorFlow, Sentiment Analysis, Named Entity Recognition & Transformers	4 Weeks
Module 7	Generative AI & LLMs: Prompt engineering, LangChain, RAG architecture, Vector DBs (Chroma/FAISS) & Live AI Capstone Deployment	4 Weeks

Career Opportunities & Industry Placement

Target Roles: Junior Data Scientist, Machine Learning Engineer, Business Intelligence Analyst, AI Prompt Engineer.
Starting salary range: ■4.5 LPA to ■9.0 LPA in Ahmedabad, Gandhinagar & Remote.

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