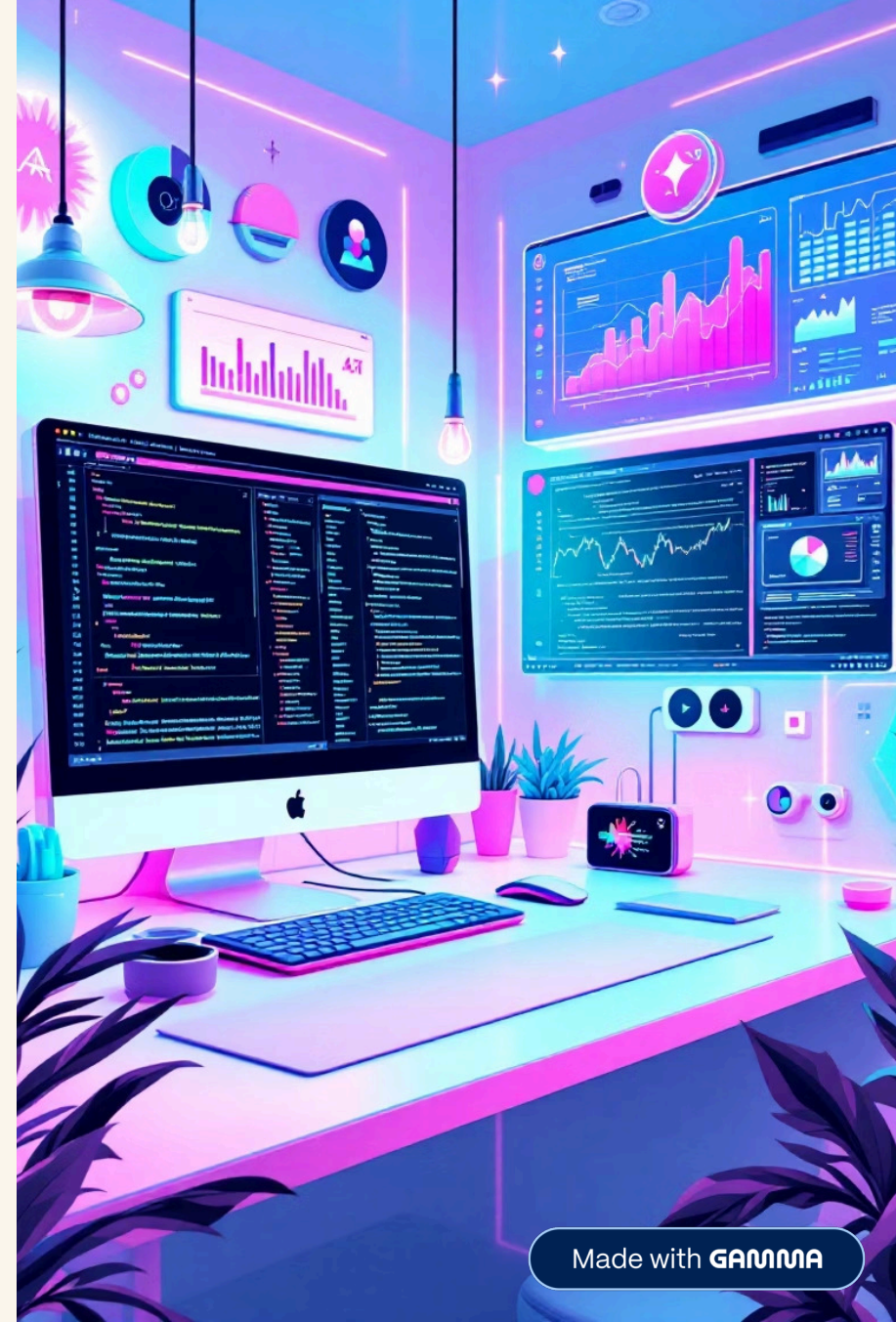


Full Stack Data Science, AI & ML Course

DataXSchool Learning Centre

Master the complete data science lifecycle with AI & ML expertise



Why Full Stack Data Science & AI?

Industry Reality

90% of ML project failures stem from poor deployment, not modeling (McKinsey 2024)

Market Demand

Industry demands professionals skilled in end-to-end data solutions, not just algorithms

Our Solution

DataXSchool equips you with skills from data wrangling to production-grade AI systems



Bridge the skills gap between theory and real-world application

Module 1: Foundations & Software Engineering for Data



Programming Mastery

Python programming essentials & advanced concepts for data professionals



System Administration

Linux, Bash scripting, SQL & database management for scalable solutions



Development Tools

Version control with Git & GitHub, API development with FastAPI



Practical Application

Hands-on labs: Build data pipelines, deploy containerized apps with Docker



Module 2: Data Analysis & Visualization

01

Data Manipulation

Master NumPy & Pandas for efficient data processing and transformation

02

Insight Discovery

Exploratory Data Analysis (EDA) techniques to uncover hidden patterns

03

Visual Storytelling

Advanced visualization with Matplotlib, Seaborn, and interactive Plotly

04

Real Projects

Customer segmentation, sales trend analysis with business impact



Transform raw data into compelling visual narratives that drive business decisions



Module 3: Machine Learning Fundamentals

Algorithm Mastery

Supervised & unsupervised learning: Linear/Logistic Regression, SVM, Random Forest, K-Means clustering

Data Engineering

Feature engineering techniques & handling imbalanced datasets with SMOTE and advanced sampling

Model Excellence

Comprehensive evaluation metrics & explainability tools including LIME and SHAP for transparent AI

Applied Project: Develop a credit scoring model with explainable AI components for real-world deployment

Module 4: Deep Learning & Neural Networks

1

Neural Architectures

Master CNNs, RNNs, LSTMs, and cutting-edge Transformer models

2

Specialized Applications

Computer vision, NLP, and model compression techniques for production

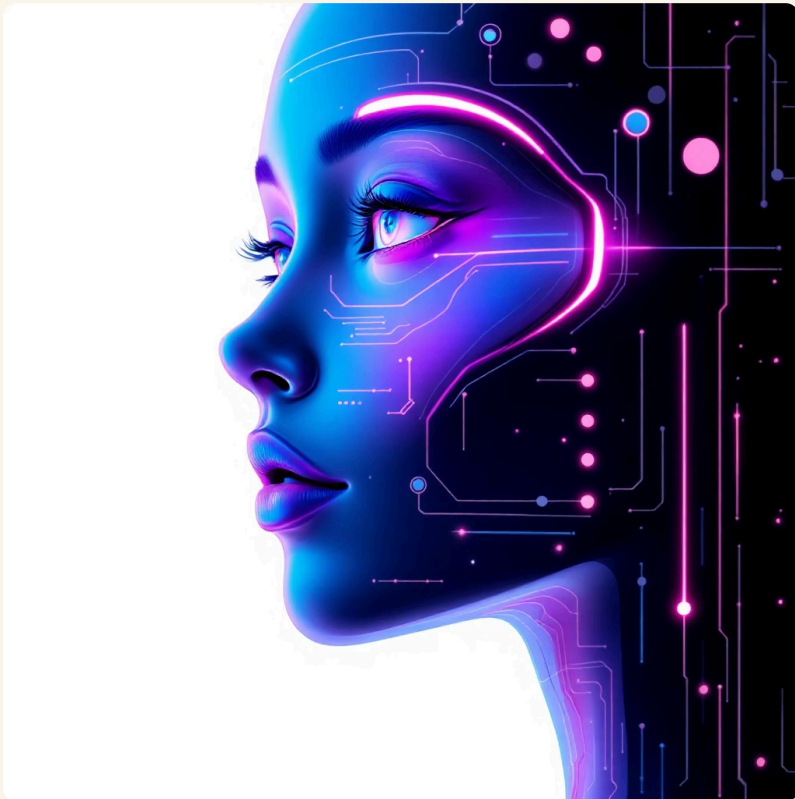
3

Framework Expertise

Hands-on experience with TensorFlow, Keras, and PyTorch ecosystems

Capstone Project: Build and deploy an advanced image classifier or sentiment analyzer with real-world performance

Module 5: Natural Language Processing & Generative AI



NLP Foundations

Text preprocessing, advanced embeddings, and state-of-the-art language models



Generative AI

Conversational AI, prompt engineering, and GenAI tools including ChatGPT and GPT-4



Industry Applications

Automated customer support systems and financial sentiment analysis solutions

Hands-on Project: Develop a sophisticated chatbot or advanced text summarization tool ready for production deployment



Module 6: MLOps & Model Deployment

Containerization

Productionizing ML models with Docker containers and Kubernetes orchestration

Cloud Deployment

Strategic deployment across AWS, Azure, and GCP with scalability best practices

1

2

3

4

Pipeline Automation

CI/CD pipelines, continuous monitoring, and automated model versioning systems

Production System

End-to-end ML system from data ingestion to live API with monitoring



Learning Experience & Career Support



Interactive Learning

Live instructor-led sessions combined with flexible self-paced materials for optimal knowledge retention



Real-World Projects

Industry-relevant projects with personalized feedback from experienced data science professionals



Expert Mentorship

Access to expert mentors and a thriving global alumni network for continuous learning and support



Career Acceleration

Dedicated career coaching and comprehensive job placement assistance to fast-track your success

Transform Your Career

6-Month Journey

Immersive program designed for immediate industry impact and career transformation

Production Portfolio

Build impressive portfolio of production-ready AI & ML projects that employers demand

Future-Ready Skills

Become a Full Stack Data Scientist equipped to solve tomorrow's most complex challenges

Enroll today and start your journey to data science mastery!

Enroll Now

Learn More



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