

Advanced Data Science, Visualization & Machine Learning with Python (Online)



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Stop relying on spreadsheets and black-box tools. Start building real machine learning capability using Python. This intensive 5-day hands-on programme equips you with practical data science, visualization and ML skills to handle real industrial datasets, build predictive models, and **accelerate your career as a data-driven problem solver.**

From raw data to insight. From insight to impact. Covering supervised, unsupervised learning, NLP, deep learning and end-to-end implementation. — 100% HRDF Claimable.

Who Should Attend

Engineers, analysts, technical professionals and aspiring data science practitioners working with manufacturing, process, quality, operational or industrial datasets who want to move beyond descriptive reporting into predictive analysis.

Why Sign Up

Data science is a career-defining capability. Build the full ML workflow from data access and cleansing to modelling, validation and implementation — using Python on real-world problems rather than relying on black-box tools.

What You Will Learn

- 1

Foundations (Day 1)
AI & ML concepts, supervised vs unsupervised learning, math & statistics refresher, data importing/exporting, data cleaning and manipulation, and exploratory analysis with visualization.
- 2

Regression & Forecasting (Day 2)
Linear regression, logistic regression (binary and multiple), and time series forecasting with trend and seasonality analysis — building, validating and interpreting models for prediction.
- 3

Classification & Ensembles (Day 3)
Decision trees with overfitting management, ensemble learning using bagging, boosting, random forest and GBM, and Naive Bayes classification with robust model evaluation metrics.
- 4

Advanced Models (Day 4)
Kernel learning, PCA and ridge regression, support vector classification and regression, unsupervised segmentation with K-means and hierarchical clustering, and NLP feature engineering with text data.
- 5

Deep Learning & Deployment (Day 5)
Neural network fundamentals, ANN model tuning with TensorFlow, and end-to-end ML implementation connecting the full learning pathway to practical use-case discussion and operational deployment.

Practical & Hands-On

19 modules of real-world Python practice on industrial, business and operational datasets across the full ML workflow.

Broad Modelling Exposure

Covers regression, decision trees, ensembles, SVM, clustering, NLP and ANN — supervised and unsupervised in one pathway.

Immediate Operational Value

Interpret models, validate performance and connect ML outputs to real business and industrial decisions from day one.

Leave with practical ML capability, the confidence to work with complex datasets using Python, and the ability to translate analytics into predictive models and decision-ready outputs — standing out as a data-driven problem solver who delivers real operational impact.



Ready to build real data science and machine learning capability in Python? Enroll your team in this high-impact 5-day programme and turn raw data into insight, models and business outcomes.

Inhouse and public run options available. Contact us for pricing and scheduling. Pre-register to secure your seat today.

Contact us email azli.ismail@eliteindigo.com or **WhatsApp 6012 705 5594 (Aisha)** or visit www.kredenzaadigital.com/eliteindigoprogram