

Python Data Analysis Short Course

40 · R14,995

Become a data analyst using Python. This hands-on course covers the full data analysis workflow — loading, cleaning, transforming, exploring and visualising data — using the ind...

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Hours of Training

R14,995

Course Fee

5 Days

Full-Time Option

JHB · CPT

+ Online Nationwide

COURSE CURRICULUM

What You'll Learn

Python & Jupyter Refresher

Python syntax recap, Jupyter notebooks, virtual environments and package management.

NumPy Arrays

Array creation, indexing, slicing, broadcasting and vectorised operations.

Pandas Series & DataFrames

Create, load and explore DataFrames from CSV, Excel and JSON sources.

Data Cleaning

Handle missing values, duplicates, incorrect types and outliers.

Data Transformation

apply(), map(), groupby(), pivot tables, merge and concat.

Exploratory Data Analysis (EDA)

Statistical summaries, correlation analysis and asking the right questions of your data.

Matplotlib Visualisation

Line, bar, scatter, histogram and subplots — build charts from scratch.

Seaborn Statistical Plots

heatmaps, pairplots, violin plots and regression plots for deeper insight.

Time Series Analysis

Resampling, rolling averages and working with datetime indices.

Capstone Project

End-to-end analysis on a real-world South African dataset, presented as a Jupyter notebook.

