



Consulting and Training | Reach New Heights

Course Name

Python-Based Data Visualization and Analytics

Sector Name

Digital Transformation and Innovation

Document Type

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Python-Based Data Visualization and Analytics

Course Introduction

Python is a powerful tool for advanced visualization and analytics. This program helps participants develop visually compelling and analytically robust dashboards using libraries like Matplotlib, Seaborn, and Plotly, with an emphasis on effective UI/UX and actionable insight generation.

Participants will learn to manipulate datasets, create interactive visualizations, and enhance decision-making by combining advanced analytics with intuitive visual design.

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Python-Based Data Visualization and Analytics

Target Audience

- ✓ Data Analysts
- ✓ Business Analysts
- ✓ Data Scientists and Aspiring Data Scientists
- ✓ Business Intelligence (BI) Professionals
- ✓ Researchers and Academics

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Learning Objectives

- ✓ Create visually appealing charts and dashboards using Python visualization libraries.
- ✓ Apply advanced data analysis techniques for deeper insights.
- ✓ Implement interactive visualizations with Plotly and Dash.
- ✓ Optimize visual storytelling through design and layout principles.
- ✓ Transform raw data into meaningful, actionable business insights.

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Python-Based Data Visualization and Analytics

Course Outline

✓ DAY 01

Python Visualization Fundamentals

- ✓ Introduction to Matplotlib, Seaborn, and Plotly
- ✓ Principles of visualization design and effective storytelling
- ✓ Visualizing distributions, relationships, and trends
- ✓ Customizing aesthetics: colors, themes, and labels
- ✓ Choosing the right chart type for your data

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Course Outline

✓ DAY 02

Advanced Visualization Techniques

- ✓ Creating complex multi-dimensional plots
- ✓ Heatmaps, pairplots, and correlation matrices
- ✓ Interactive dashboards with Plotly and Dash
- ✓ Combining multiple plots and subplots
- ✓ Best practices for clarity and visual impact

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Course Outline

✓ DAY 03

Data Mining and Analytics

- ✓ Data preprocessing and feature engineering
- ✓ Exploratory Data Analysis (EDA) for insights
- ✓ Statistical summaries and hypothesis testing
- ✓ Clustering and segmentation for visual storytelling
- ✓ Correlation and trend analysis for decision-making

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Course Outline

✓ DAY 04

Interactive Dashboards in Python

- ✓ Building dashboards with Plotly Dash
- ✓ Adding interactivity: dropdowns, sliders, and callbacks
- ✓ Designing dashboards for end-user experience
- ✓ Linking Python visualizations to live data sources
- ✓ Deployment and sharing of dashboards

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Course Outline

✓ DAY 05

Advanced Analytics for Decision Support

- ✓ Predictive analytics and trend forecasting
- ✓ Anomaly detection and key driver analysis
- ✓ Integrating Python models into dashboards
- ✓ Visualizing machine learning outputs effectively

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
July 4, 2027	July 8, 2027	5 days	4250.00 \$	KSA , Riyadh
Nov. 8, 2026	Nov. 12, 2026	5 days	2150.00 \$	Virtual , Online
Aug. 30, 2026	Sept. 3, 2026	5 days	4250.00 \$	Egypt , Cairo
Sept. 14, 2026	Sept. 18, 2026	5 days	4250.00 \$	UAE , Dubai
April 5, 2027	April 9, 2027	5 days	4950.00 \$	UAE , Dubai

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