



PYTHON TRAINING

Python Data Visualization

Master Python data visualization using Matplotlib & Seaborn. Transform complex data into compelling, insightful visuals.

DURATION

2 hours

LEVEL

Intermediate

FORMAT

Instructor-Led

-
- Globally Recognized Certification
 - Expert-Led Hands-On Training
 - Flexible Scheduling

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COURSE OVERVIEW

This intermediate-level Python Data Visualization course from Computer Pride is meticulously designed to empower professionals with the essential skills to transform raw data into compelling, insightful visual stories. Over 2 hours, participants will dive deep into Python's powerful visualization libraries, including Matplotlib, Seaborn, and Plotly, learning to create a wide array of static, statistical, and interactive charts. From foundational plotting techniques to advanced customization, the course emphasizes best practices for effective data communication, enabling learners to uncover hidden patterns, trends, and outliers.

Mastering data visualization is crucial in today's data-driven world, providing a critical edge for professionals across various sectors. By the end of this course, you will be proficient in designing visualizations that not only look professional but also convey complex information clearly and concisely, aiding in better decision-making and strategic planning. This certification will significantly enhance your analytical toolkit, making you an invaluable asset capable of presenting data-driven insights with impact and clarity, propelling your career forward in fields requiring robust data interpretation and presentation.

Duration	2 hours
Level	Intermediate
Vendor	Python

COURSE CURRICULUM

01 Module 1: Introduction to Python Data Visualization

- Importance of Data Visualization
- Overview of Python Visualization Libraries (Matplotlib, Seaborn, Plotly)
- Setting up your environment (Jupyter Notebooks, Pandas Basics)
- Understanding different chart types and their applications

02 Module 2: Static Visualization with Matplotlib

- Basic plotting: Line plots, Scatter plots, Bar charts
- Customizing plots: Titles, Labels, Legends, Colors, Markers
- Subplots and multi-panel figures
- Saving plots to various file formats

03 Module 3: Statistical Plotting with Seaborn

- Introduction to Seaborn for statistical graphics
- Creating distribution plots: Histograms, KDE plots, Box plots, Violin plots
- Relational plots: Scatter plots, Line plots with regressions
- Categorical plots: Bar plots, Count plots, Swarm plots
- Customizing Seaborn aesthetics and styles

04 Module 4: Interactive Visualization with Plotly

- Introduction to Plotly for interactive web-based visualizations
- Creating basic interactive charts: Line, Scatter, Bar
- Building dashboards with Dash (brief overview)
- Geospatial visualizations and 3D plots (introduction)

Module 5: Advanced Techniques & Best Practices

- 05**
- Handling large datasets for visualization
 - Choosing the right chart for your data story
 - Principles of effective data visualization design
 - Common pitfalls and how to avoid them
 - Storytelling with data visualizations

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Junior Data Analyst specializing in visual reporting**
- > **Business Intelligence Developer focused on dashboard creation**
- > **Research Assistant proficient in scientific data illustration**

FREQUENTLY ASKED QUESTIONS

Q: What are the prerequisites for enrolling in the Python Data Visualization course?

To get the most out of this course, participants should have a foundational understanding of Python programming, including basic syntax, data structures (lists, dictionaries, Pandas DataFrames), and familiarity with functions. While not strictly required, prior exposure to basic data analysis concepts will also be beneficial.

Q: How will mastering Python data visualization skills enhance my career prospects in the Kenyan job market?

In Kenya's rapidly evolving tech and business landscape, professionals capable of translating complex data into actionable insights are highly sought after. This course will equip you with a critical skill set that makes you competitive for roles in data analytics, business intelligence, and research across various sectors, enabling you to effectively communicate data-driven recommendations to stakeholders and drive strategic decisions.

Q: Beyond creating standard charts, what specific advanced visualization techniques will I learn in this course?

This course goes beyond basic plotting to cover advanced topics such as creating heatmaps, pair plots, and joint plots with Seaborn for multi-variable analysis. You will also learn to develop interactive visualizations using Plotly for dynamic web-based reports and gain insights into effective dashboard design principles, empowering you to craft compelling and interactive data narratives.

ABOUT COMPUTER PRIDE



East Africa's Premier IT Training Center

With over 15 years of excellence, Computer Pride delivers globally recognized certification programs from leading

technology vendors. Located on Kenyatta Avenue in Nairobi's CBD, our state-of-the-art facilities and expert instructors have empowered thousands of professionals across East Africa.

15+

Years of Excellence

10,000+

Professionals Trained

50+

Vendor Certifications

READY TO ENROL?

Take the next step in your technology career.

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