



PYTHON TRAINING

Data Visualization With Python

Master Python for data visualization. Learn to create compelling charts and dashboards to analyze and present insights effectively.

DURATION

2 hours

LEVEL

Intermediate

FORMAT

Instructor-Led

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

Computer Pride | 1st Floor, ICEA Building, Kenyatta Avenue, Nairobi | www.computer-pride.co.ke

COURSE OVERVIEW

Unlock the power of data storytelling with our "Data Visualization With Python" course, meticulously designed for intermediate learners. In this engaging 2-hour session, you will delve into the essential Python libraries that transform raw data into compelling visual narratives. This course focuses on practical, hands-on application, teaching you how to use Matplotlib and Seaborn to create a wide array of static, publication-quality plots, from basic charts to complex statistical graphics. You'll learn the principles of effective data visualization, ensuring your insights are not just seen, but understood and acted upon.

Mastering data visualization is a critical skill in today's data-driven world. By the end of this course, you will be proficient in using Python to communicate complex data trends and patterns with clarity and impact. This expertise is invaluable for enhancing analytical reports, presentations, and decision-making processes across various industries. Elevate your analytical capabilities and empower yourself to convey data-driven insights effectively, significantly boosting your professional value.

Duration	2 hours
Level	Intermediate
Vendor	Python

COURSE CURRICULUM

01 Module 1: Introduction to Data Visualization and Python Essentials

- Importance of data visualization in decision-making
- Setting up your Python environment (Jupyter Notebooks, Anaconda)
- Review of fundamental Python data structures (lists, dictionaries, Pandas DataFrames)
- Loading and preparing data for visualization using Pandas

02 Module 2: Mastering Matplotlib for Basic Plotting

- Introduction to Matplotlib: Figures, Axes, and Subplots
- Creating line plots and scatter plots
- Generating bar charts and histograms
- Customizing plot elements: titles, labels, legends, colors, and markers
- Saving visualizations in various formats

03 Module 3: Enhanced Visualizations with Seaborn

- Introduction to Seaborn for statistical plotting
- Creating distribution plots (histograms, kernel density estimates)
- Visualizing relationships: scatter plots, joint plots, pair plots
- Comparing categories: box plots, violin plots, bar plots
- Utilizing Seaborn's aesthetic controls and themes

04 Module 4: Advanced Techniques and Storytelling

- Combining Matplotlib and Seaborn for complex visualizations
- Creating heatmaps and correlation matrices
- Developing multi-panel figures for comprehensive data stories
- Best practices for effective data storytelling through visuals
- Introduction to interactive visualization concepts (brief overview)

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Data Analyst specializing in business intelligence reporting**
- > **Junior Data Scientist focusing on exploratory data analysis and presentation**
- > **Market Research Analyst creating visual insights from consumer behavior data**

FREQUENTLY ASKED QUESTIONS

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

This course is designed for intermediate learners. Participants should have a foundational understanding of Python programming, including working with basic data types, control flow, functions, and familiarity with Pandas DataFrames for data manipulation. Prior exposure to data analysis concepts will be beneficial but is not strictly required.

Q: What specific types of visualizations will I be able to create after completing this 2-hour course?

Upon successful completion, you will be proficient in creating a wide range of static visualizations using Matplotlib and Seaborn. This includes line charts, scatter plots, bar charts, histograms, box plots, violin plots, heatmaps, and various distribution plots, enabling you to effectively represent trends, distributions, comparisons, and relationships within your data.

Q: How will mastering data visualization with Python enhance my analytical skills and career prospects?

Developing strong data visualization skills with Python empowers you to transform complex datasets into clear, actionable insights. This directly enhances your ability to communicate findings to technical and non-technical stakeholders, improve report quality, and contribute more effectively to data-driven decision-making. These skills are highly sought after in roles such as Data Analysts, Business Intelligence Developers, and Junior Data Scientists.

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.

Location

1st Flr, ICEA Building
Kenyatta Ave, Nairobi

Email

info@computer-pride.co.ke

Phone

+254 705 900 900

www.computer-pride.co.ke