
Data Visualization with Python Course

Part-Time Online Classes

In partnership with:

 **FLATIRON SCHOOL**

Introduction

In today's data-driven world, the ability to present data in a clear, impactful way is an essential skill. This course equips you with the tools and techniques needed to turn raw data into meaningful, actionable insights. This is a good foundational course for aspiring Data Scientists.

By the end of the course, learners will have an understanding of Python for Data Visualization, the basics of statistical analysis, and data analytics.

This course is ideal for beginners and non-techies with 0 experience in programming.

What is Data Visualization?

Data visualization is the graphic representation of data analysis to achieve clear and effective communication of results and insights drawn from data. One of the key skills of a data scientist is the ability to tell a compelling story, visualizing data and findings in an approachable and stimulating way. Learning how to leverage programming skills to visualize data takes you a step closer to becoming a good data scientist.

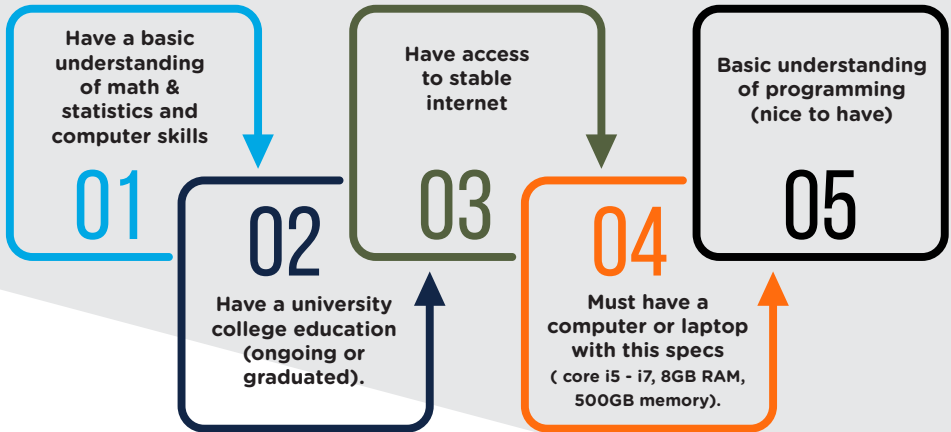
Why Learn Data Visualization?

- **High Demand for Specialists:** Companies dealing with Big Data actively seek professionals who can turn complex data into clear, actionable insights.
- **Crucial for Communication:** Data visualization helps you present information effectively, making complex data understandable to coworkers, clients, or customers.
- **Versatility Across Professions:** Whether in finance, marketing, healthcare, or analytics, strong visualization skills are essential for interpreting and sharing data.
- **Better Decision-Making:** Visualization makes it easier for stakeholders to grasp key insights, leading to faster, more informed business decisions.
- **Competitive Advantage:** In a data-driven world, mastering visualization techniques gives you an edge, making you more valuable in today's job market.

Who is this course for?

- Complete beginners and professionals who handle large sets of data with no prior programming experience.
- Aspiring Data Analysts and Data Scientists interested in learning story-telling and data visualization with python

What are the entry requirements?



Course Overview

Curriculum Developed by: Flatiron School

Course Duration: 13 weeks

Mode of Learning: 100% Live & online classes | Part-Time Evening Classes

Weekly schedule: Mon to Fri from 6 pm - 9 pm E.A.T

Tuition Fees: Ksh 55,000



Curriculum Outline

Orientation & Onboarding

- Course Overview
 - System configurations and installations
 - Onboarding
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Topic 1: Python Essentials

- Fundamentals of Python Programming for Data Science
 - Python Loops & Functions
 - No prior coding experience is required
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Topic 2: Introduction to Statistics

- Basic statistics with Python
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Topic 3: Data Visualization Fundamentals

- How to visualize data with Python
 - Scatter Plots, Bar Graphs, Histograms
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Topic 4: Data Analysis Fundamentals

- Intro to Pandas
 - Building Data Frames
 - Data Analysis with Python
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Project Period I:

- Students will work in teams to support each other in the development of their first Python visualization project.
 - You will be expected to prepare a project presentation.
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Topic 5: Data Cleaning with Pandas

- Common Data Manipulation Techniques
- Common Data Cleaning Techniques

Curriculum Outline

Topic 6: Data APIs

- What is an API?
 - Using API to merge datasets
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Project Period II:

- Students will take an approved dataset of their choosing and enrich it by merging it with externally sourced data.
- Using this enriched dataset, students will prepare a full visual analysis presentation exploring the features of the data and presenting valuable insights.

Expected learning outcomes

At the end of the course all learners will:

- Master python programming & Data Visualization techniques
- Create advanced visualizations
- Generate interactive dashboards
- Build a portfolio of projects

Careers To Explore After Completion?

- Data Scientist
- Data Visualisation Specialist
- Data Analytics & Visualization Instructor
- Data Analysis Associate

Contact Details



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