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# Data Visualization with Python Course

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Part-Time Online Classes

In partnership with:

 **FLATIRON SCHOOL**

## Introduction

In today's world, a lot of data is generated on a daily basis. Analyzing large sets of data for certain trends, and patterns may become difficult if the data is in its raw format. Data visualization comes into play here. In this 12-week course, you will learn how to visualize data using Python. By the end of the training, you will be able to provide a good, organized pictorial representation of data which makes it easier to understand, observe, and analyze for decision-making.

**The course is ideal for complete 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?

- Data visualization skills are required for many jobs in the data analysis and statistics professions.
- Data visualization specialists are in high demand by companies working with Big data.
- Learning data visualization techniques is important for professionals in finance, marketing, health, insurance, business analytics, and statistics.

## Why Study At Moringa?

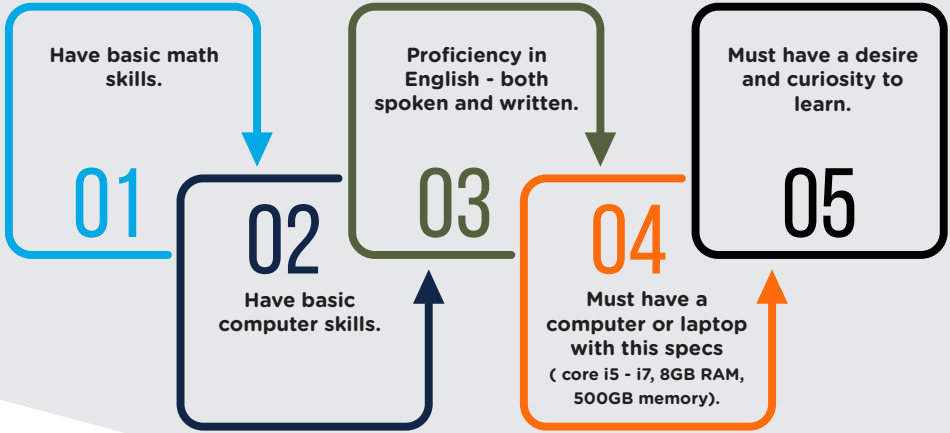
We guarantee you will learn market-aligned skills through our practical and comprehensive curriculum.

- Project-based learning
- Access to large data sets & real-world business case studies
- Technical Mentor Support
- Live instructor classes
- Access to a global community of learners all over Africa
- Career Guidance

## Who is this course for?

This course is designed for non-technical learners. No prior knowledge of programming is required.

## What are the entry requirements?



## Course Overview

**Curriculum Developed by:** Flatiron School

**Course Duration:** 12 Weeks

**Mode of Learning:** Live & Online | Part-Time Evening Classes

**Weekly schedule:** Weekdays 6 pm - 9 pm

**Tuition Fees:** Ksh 35,000

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# Curriculum Outline

## Week 1

### Topic 1: Python Essentials

The Fundamentals of Python

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## Week 2

### Topic 2: Python Loops & Functions

Python for Beginners

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## Week 3

### Topic 3: Statistical Measures

Intro to Stats w/Python

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## Week 4

### Topic 4: Data Visualizations

How to Visualize Data

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## Week 5

### Topic 5: Data Analysis in Pandas

Intro to Pandas Data Frames

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## Week 6 & 7

### Project 1:

Visualizations Project

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## Week 8

### Topic 6: Data Cleaning in Pandas

Common Data Manipulation Techniques

# Curriculum Outline

## Week 9

### Topic 7: Data Cleaning in Pandas

Common Data Cleaning Techniques

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## Week 10

### Topic 8: APIs

Harnessing External Data

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## Week 11 & 12

### Project 2:

More Data Projects

## 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

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## Contact Details



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