MORINGA
Discover · Grow · Transform

Data Science Course

Full-Time & Part-Time Classes

Africa's top Tech Bootcamp - Moringa has partnered with Flatiron School, to offer a Data Science Course.
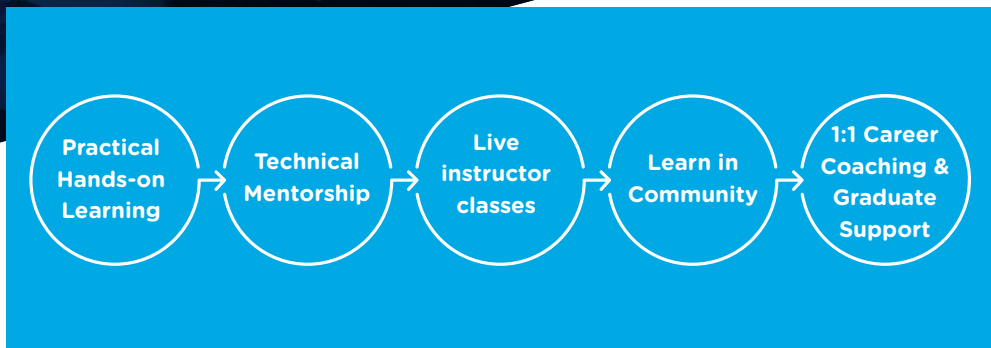
Introduction

Data Science is an interdisciplinary field that deploys algorithms, and other scientific methods and processes to acquire insights and knowledge from data. Many industries are now leveraging data to monitor behaviors and trends. Data Scientists are equipped with the knowledge of how to use data, tell a story, and derive insights for businesses. Did you know that Data Science Jobs are among the most sought-after roles in this century? Take the chance and learn these skills.

This course is for those who are curious and want to work with Data to:

- Help businesses leverage data for innovation and success
- Innovate and predict future trends in business and other industries
- Learn how to analyze data, and provide data-driven insights to make decisions
- Elevate their careers or switch to Data Science within a year

Why Study At Moringa?

Practical Hands-on Learning	→	Technical Mentorship	→	Live instructor classes	→	Learn in Community	→	1:1 Career Coaching & Graduate Support

Become a Certified Data Scientist with access to 12 months of Graduate Support to land your next career opportunity in Tech.

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Who is eligible to join our Data Science Course?

- Ongoing university student/graduate who has taken a course that has math and statistics concepts and/or IT related related courses.
- Working professionals who work with data e.g fintech, banking, research
- Aspiring data scientists and data analysts who are eager to harness the power of data to drive decisions.

01 Have a basic understanding or strong background in math & statistics concepts.

02 Have a university/college education(ongoing or graduated)

03 Complete the application process by taking a technical assessment test

04 Have stable internet access.

05 Have a laptop (core i5 and upwards, 8GB RAM, 500GB or more memory).

What is the learning schedule for full-time classes?

- Students will engage in 40 hours of learning weekly from Mon - Friday for a total of 25 weeks.
- Students will attend live lectures from technical mentors
- You can either join online classes or hybrid classes depending on your preference
- Additional classes & helpdesk support are available on Saturdays from 9 am to 12 pm EAT

What is the learning schedule for part-time classes?

- Students will engage in 20+ hours of learning weekly from Mon - Friday for a total of 35 weeks,
- Students will attend a live lecture i.e a 3-hour lecture per week.
- You can either join live lectures or watch recordings as your schedule allows
- Additional classes & helpdesk support are available on Saturdays from 9 am to 12 pm EAT

Data Science Course Overview

Part-Time Online Classes
Duration - 36 weeks
Mode - 100% online classes
Mon to Fri from 6 pm - 9 pm
Saturdays from 9 am
Tuition Fees - Ksh 200,000

Full-Time Online Classes
Duration - 26 weeks
Mode - 100% live & online classes
Mon - Fri from 8 am - 5 pm
Tuition Fees - Ksh 174,000

Full-Time Hybrid Classes
Duration - 26 weeks
Mode - In-person & online classes
Mon - Fri from 8 am - 5 pm
Tuition Fees - Ksh 200,000

Fee Payment Options Available

1 Upfront Full Fee Payment

2 Fees Installment Plan

3 Student Loan with Aspira

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Curriculum Outline

Orientation & Onboarding

- Course Overview
- System configurations and installations
- Onboarding

Phase 0

Pre Work and Introduction to Data Science Principles

The Data Science pre-work covers introductory Data Science concepts. By the end of pre-work, you will be prepared to dive into the course material and you will be at the same level as your coursemates. You will also learn about the Data Science Principles and dive deep into Python programming.

Phase 1

Data Analysis & Engineering

In this phase, students will learn the fundamentals of Python for Data Science, including the use of Jupyter Notebooks and key libraries like Numpy and Pandas. They'll explore data structures, relational databases, and SQL for querying structured databases, while also gaining skills in accessing data via APIs and web scraping. By the end, students will be able to collect, organize, and visualize data to deliver actionable insights.

Health & Wellness Break

Phase 2

Scientific Computing & Quantitative Methods

In phase 2, students learn about the fundamentals of probability theory like combinations and permutations. They also learn about statistical distributions and how to create samples, then apply this knowledge by running A/B experiments. At the end of this phase, students will be able to build their first data science model using linear regression.

Health & Wellness Break

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Curriculum Outline

Soft Skills Training

Phase 3
Machine Learning Fundamentals

In this phase, students dive into machine learning with a strong focus on supervised learning. They begin with regression analysis, including logistic regression, and learn key techniques such as regularization to prevent overfitting and cross-validation for model validation. By the end, students will be able to build and implement essential machine learning techniques effectively.

Health & Wellness Break

Phase 4
Advanced Machine Learning

This phase of the course explores various Data Science techniques, focusing on unsupervised learning methods such as clustering and dimensionality reduction. Students will be introduced to threading and multiprocessing to handle big data, learn to use tools like PySpark and AWS to build recommendation systems. Additionally, they will delve into deep learning and neural networks, gaining skills in performing sentiment analysis.

Soft Skills Training

Technical Assessments

Phase 5
Final Data Science Projects

In the final project, learners will work individually or in groups to apply their technical and soft skills in a comprehensive data science or machine learning project. This project offers an in-depth opportunity to showcase their learning achievements and experience the process of working on a large-scale data science initiative, allowing students to integrate their knowledge and demonstrate their capabilities in a practical setting.

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What Our Graduates Say

Moringa school helped me in so many ways, but I think the most important one is the Data Science pipeline (in a nutshell). I am now able to do analysis projects with ease. I am now working for Eneza Education, an ed-tech company as a Business Intelligence Engineer. Yes! I would suggest the course to anyone who would want to pursue Data Science.

Cecilia Wanja,
Eneza Education

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