



Data Science

Presented by ALX

Why is this program important?

The ALX Data Science Program will equip you with in-demand expertise in one of the **fastest-growing fields globally**. By mastering data science, you'll be taking the first step to adding value across industries, whether you are working in healthcare, finance, consulting or virtually any field.

The ALX Data Science Program helps organizations:

- Cultivate **data science expertise**, enabling professionals to uncover trends, make predictions, and drive innovation.

- Empower teams with the ability to apply **statistical and machine learning techniques** for data-driven decision-making.
- **Provide a structured approach** to handling large datasets, optimizing data pipelines, and automating analysis.
- Develop proficiency in **Python, SQL, and visualization tools** to extract meaningful insights and communicate findings effectively.
- Introduce **core machine learning concepts**, including regression, classification, natural language processing, and unsupervised learning, to solve industry-specific problems.

Who should take this program?

This program is designed for individuals from diverse professional backgrounds who want to develop strong data science skills. It is ideal for:

New hires aiming to build a data science foundation for their careers.

Professionals looking to transition into data-driven roles.

Individuals in adjacent fields who want to expand their skillset with practical data science applications.

No prior data science experience is required—just a willingness to learn and commit.

For more details contact sales@alxafrica.com →

What will be covered in this 9-month program?

INTRODUCTION TO DATA	Immerse yourself in the foundations of data analytics, including key problem-solving, and programmatic thinking skills.
PREPARING DATA	Gain essential experience with spreadsheet tools, learning to clean, organize, and analyze data. Utilize functions and formulae, employ data validation techniques, and structure data for analysis.
QUERYING DATA	Learn to query and transform databases using Structured Query Language (SQL) to navigate the world of big data.
VISUALIZING DATA	Communicate for impact by translating complex data into compelling visual narratives through data visualization.
PYTHON	Get to grips with the programming language that will form the base of the following modules. Learn how to manipulate data, write functions, use classes, and visualize data in Python.
MACHINE LEARNING (3 modules)	Our Regression, NLP, Classification, and Unsupervised Learning modules cover essential machine learning techniques widely used in data science. Learn when and how to apply these techniques to analyze trends, classify data, generate insights and create forecasts.

How much time will you need to spend on the material?

This is an intensive program requiring a significant commitment. Expect to spend at

least 20 hours per week on focused learning and to have a mix of structured lessons and hands-on projects. The program is designed to be challenging but achievable with sensible time management.

Format & Pricing

DELIVERY	Available virtually
DURATION	9 months , 20 hours per week
PRICING	\$1,800 per seat (volume-based discounts negotiable)



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