





13 Months (20-30 hrs per week)

What is Data Science?

Data Science involves becoming proficient in data analysis and interpretation through hands-on training in Python programming, SQL databases, and tools like Power BI, enabling individuals to construct data infrastructure and utilise datadriven methods for analysis and decision-making within a 13-month immersive learning programme regardless of prior experience.

Why Data Science?

There is a growing need for skilled professionals capable of leveraging data analytics to drive strategic decisions across various industries. Our Data Science programme is meticulously designed to shape budding data scientists with hands-on projects that cultivate real-world problem-solving abilities.

Programme Objectives

- Prepare learners for entry-level roles in data science and related fields by equipping them with essential skills.
- Ensure learners are capable of working with unstructured datasets to extract meaningful insights.
- Offer expert mentorship and a supportive learning environment for successful completion.

Why Choose Us?

Professional Foundations

Before starting the Data Science programme, learners complete our 8-week foundational training, acquiring vital skills like self-awareness, teamwork, communication, and critical thinking, essential for success in tech.

Future-Ready Training

Our programme caters to both beginners and seasoned professionals, offering foundational skills that are not only in demand today but also adaptable to future technological shifts.

Real-World Application

We prioritise practical, hands-on projects, allowing learners to directly apply their newfound skills to solve authentic data challenges and develop critical problem-solving acumen.





13-Month

Programme

100%

Digital (Online) Learning programme 20-30 hrs

Per Week

Professional Foundations Schedule

08 Weeks (20-30hrs / week)

What is Professional Foundations?

- A career-readiness training module to kick-start your ALX learning journey before moving on to your chosen specialisation.
- Learn exceptional communication, teamwork, and leadership skills that make ALX graduates top picks in the job market.
- Be ready for a real-world career with soft skills that keep you ahead in the rapidly changing tech industry.

Weekly Content Week 04 Week 07 Week 01 Meditation • Personal Reflection on • Getting Started Goal Setting Intrapersonal Growth Habits for Developing • Communication for Impact • Generating Solution Intrapersonal Intelligence • Creating Presentations & • Product Requirements • Onboarding & Programme **Technical Writing** • Pitch Preparation Overview • Communication in Tech Teams • Powerful Presentations The ALX Fellowship Design Thinking • Identifying Opportunities Values & Community Work Planning • Wireframes & Prototypes • GCGOs for Africa Week 05 Week 02 Week 08 • Boosting Intrapersonal Intelligence • Movement and Mental Health • Committing to your Intrapersonal · Problem Definition • Karibu Lessons Growth • Teamwork Best Practices Values & Empathy • Elevator Pitch • Agile Technology Teams: Roles & • Exploring African GCGOs • Professional Bio **Processes** • Self Awareness & Emotional • Exploring Tech Tracks • Research & Data Gathering Intelligence Resume Writing • Data Cleaning & Preparation Growth Mindset & Grit • LinkedIn Profiles **Data Visualization** • Self Regulation & Improvement

Week 03

- Morning Pages for Personal Reflection
- **Habit Formation**

• Time Management

- Goal Setting
- Defining Problems & User Stories
- Problem Solving
- Asking the Right Questions
- Research Methodology & Ethics

- Understanding the Market

Week 06

- Refresher on Habits for Intrapersonal Intelligence
- Understanding the User
- User Interviews
- Intro to Wireframes & Prototypes
- Teamwork & Team Communication
- Conflict Management & Negotiation
- Generating Solutions & Making **Decisions**
- Human Centered Desig

- **Identifying Opportunities** • Generating Solutions
- Interview Skills
- Personal Brand & Bio
- Career Skills

www.alxafrica.com

Weekly Specialisation Schedule

Weekly

Weekly Assignment submissions due every Monday

Learning Webinars

Every Tuesday & Thursday

Monthly

- ALX Foundations Milestone submission
- ALX Foundations Sessions (Office Hours,Speaker Series)
- Self-Placement Reporting

End of Programme

- Selections Phase 3 Interviews
- Data Science Integrated Exam

Weekly Content

Fundamentals (23 weeks)

Week 01 - 02 : Explore 101

Week 03 - 04: Preparing Data

Week 05 - 09: SQL

Week 10 - 13: Data Visualisation &

Storytelling

Week 14 - 15: Consolidation

Week 16 - 23: Python



Machine Learning (14 weeks)

Week 24 - 27: Regression

Week 28 - 32: Natural Language processing and classification

Week 33 - 37: Unsupervised Learning

Cloud Practioner (5 weeks)

Week 38 - 42: AWS Foundations

Consolidation (2 weeks)

Week 43: Integrated Exams

Week 44: Consolidation



YOUR LEARNING JOURNEY





Kickstart your career in Tech

85% of learners find a job after 6 months with a certificate of completion.

LAUNCH



By learning from industry experts

Our instructors are fully-vetted with industry experience.



Get a professional portfolio and skills for better employability.



re Lec

Gaining work ready skills

Learn up-to-date tech innovations with real-world projects.





In a state-ofthe-art learning environment

Network, collaborate and co-work with peers online or offline.



With support from your peers.

Our alumni get access to our Fellowship community and events.



GET STARTED

apply now







www.alxafrica.com



2024 Calendar

Programme - Cohort #	Application	Onboarding	Programme
	Deadline	Starts	Starts
Data Science - C2	27 Feb	11 Mar	18 Mar

DISCLAIMER: Please be aware that the dates provided are subject to change and are intended as a reference for your planning purposes, please refer to the website for date confirmation.



Frequently Asked Questions

What is the criteria for being accepted?

Accepted applicants are evaluated based on their entire application, including assessment scores and essay responses. While the outcome may not always meet expectations, we encourage self-reflection, identifying areas for improvement, and ongoing skill development. For future programme applications, please revisit our website during the next cycle.

I applied and received confirmation, but I haven't received an acceptance letter.

The confirmed button in your email indicates your acceptance.

Are there any fees apart from the administration fee?

The tuition fee for our programmes starts at \$7500. For sponsored applicants, this fee is waived, and only the administration fee is required.

I want a waiver or scholarship, and I am unable to pay the administration fee.

Regrettably, we cannot accommodate this request presently. The administration fee supports programme access, study materials, community engagement, networking, and certification. Paying it demonstrates commitment and ensures access to all resources and support for success.

How do I make payment?

All payments can be made via the admissions portal.

I accidentally dropped a programme, and now I can't continue the application.

Unfortunately, dropped applications cannot be continued. You will need to apply to another programme or use a different email address.