



Data Science Overview

13 months (20–30 hrs / 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 data-driven 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?

ALX 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.

Weekly Foundations Schedule

08 Weeks (20–30hrs / week)

What is ALX 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.

8 Key Meta Skills

1. **Leading Self**
2. **Leading Others**
3. **Communicating for Impact**
4. **Quantitative Reasoning**
5. **Entrepreneurial Thinking**
6. **Critical Thinking**
7. **Managing Complex Tasks**
8. **Tech Skills**

Weekly Content

Week 01

- Getting Started
- Daily 3
- Onboarding & Programme Overview
- The ROOM Fellowship
- Values & Community
- GCGOs for Africa

Week 02

- Daily 3
- Karibu Lessons
- Values & Empathy
- Exploring African GCGOs
- Self Awareness & Emotional Intelligence
- Growth Mindset & Grit
- Self Regulation & Improvement
- Time Management

Week 03

- Daily 3
- Habit Formation
- Goal Setting
- Defining Problems & User Stories
- Problem Solving
- Asking the Right Questions
- Research Methodology & Ethics

Week 04

- Daily 3
- Goal Setting
- Communication for Impact
- Creating Presentations & Technical Writing
- Communication in Tech Teams
- Design Thinking
- Work Planning

Week 05

- Daily 3
- Problem Definition
- Teamwork Best Practices
- Agile Technology Teams: Roles & Processes
- Research & Data Gathering
- Data Cleaning & Preparation
- Data Visualization
- Identifying Opportunities
- Generating Solutions
- Understanding the Market

Week 06

- Daily 3
- Understanding the User
- User Interviews
- Wireframes & Prototype
- Human Centered Design

Week 06 (Cont)

- Teamwork & Team Communication
- Conflict Management & Negotiation

Week 07

- Daily 3
- Improving on Your Solution
- Product Requirements
- Design Handover Process
- Pitch Preparation
- Powerful Presentations
- Identifying Opportunities
- Personal Brand & Bio
- Career Skills

Week 08

- Daily 3 Reflection & Commitment
- Elevator Pitch
- Exploring Tech Tracks
- Resume Writing
- LinkedIn Profiles
- Cover Letters
- Interview Skills

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 Practitioner (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.

1

And developing your professional foundations

Get a professional portfolio and skills for better employability.

Gaining work ready skills

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

2

3



4

In a state-of-the-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.

5

GET STARTED

apply now



6





2024 Calendar

Programme - Cohort #	Application Deadline	Onboarding Starts	Programme Starts
Data Analytics - C3	27 Feb	11 Mar	18 Mar
Cloud Computing - C3	27 Feb	11 Mar	18 Mar
Salesforce Administrator - C3	27 Feb	11 Mar	18 Mar
Back-end Web- C1	27 Feb	11 Mar	18 Mar
Front-end Web - C1	27 Feb	11 Mar	18 Mar
Data Analytics - C4	21 May	10 Jun	17 Jun
Cloud Computing - C4	21 May	10 Jun	17 Jun
Salesforce Administrator - C4	21 May	10 Jun	17 Jun
Back-end Web- C2	21 May	10 Jun	17 Jun
Front-end Web - C2	21 May	10 Jun	17 Jun





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.

