Data Analytics
Overview

6 months (20-30 hrs / week)

What is Data Analytics?

- The programme is designed to equip learners with the skills and knowledge needed to excel in the field of data analysis.
- You will learn the discipline of the field which involves the systematic analysis, interpretation, and visualisation of data to help organisations optimise their processes, enhance customer experiences, and achieve strategic goals.

Why Data Analytics?

As a Data Analyst, you will have the power to increase efficiency and improve a company's performance by learning to read data patterns. Work with complex datasets by advancing your programming skills, and use these skills for data manipulation, analysis and exploration.

Programme Objectives

- Ensure you're well-prepared with sought-after professional skills for the present-day digital workforce in the prestigious 3-month ALX Foundations course.
- Prepare learners for a diverse range of high-demand data career opportunities in various industries.
- Facilitating personal and professional growth by joining The ROOM Fellowship, a prestigious talent community offering valuable resources and networking opportunities.

What makes this programme unique?

Problem-Solving Power
The programme equips individuals with the ability to solve complex problems by harnessing the insights hidden within data.

Diverse Career Paths
Graduates can pursue diverse career paths highly sought after by employers worldwide, ensuring ample career opportunities.

Certification
This programme was developed in partnership with ExploreAI and graduates will receive a Data Analytics certificate of completion to validate their experience and boost their credentials.

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
- Values & Community
- Grand Challenges and Grand Opportunities for Africa

Week 02
- Self Awareness & Emotional Intelligence
- Growth Mindset & Grit
- Self Regulation & Improvement
- Time Management

Week 03
- Problem Solving
- Research Methodology & Ethics
- Goal Setting

Week 04
- Creating Presentations & Technical Writing
- Communication in Tech Teams
- Design Thinking
- Work Planning

Week 05
- Working in Technology Teams
- Data Research & Visualization
- Understanding the Market

Week 06
- Wireframes & Prototypes
- Human Centered Design
- Conflict Management & Negotiation

Week 07
- Identifying Opportunities
- Professional Career Skills

Week 08
- Resume Writing
- Cover Letters
- Interview Skills
- Job Seeking Skills

Weekly Schedule

Weekly Content

Week 01 – 02 : Explore 101

- Orientation
- Introduction to data and data analysis
- Problem-solving
- Programmatic thinking

Week 03 – 05 : Preparing Data

- Introduction to spreadsheets
- Data manipulation
- Introduction to statistics
- Introduction to data modelling

Week 06 – 09 : Querying Data

- Introduction to SQL
- Relational database design
- SQL in practice
- Data manipulation

Week 10 – 14 : Visualising Data

- Data in Power BI
- Visuals in Power BI
- Dashboards
- Visual storytelling

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www.alxafrica.com