



Data Analytics Overview

6 months (30-40 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

11-15 Weeks (30-40hrs / week)

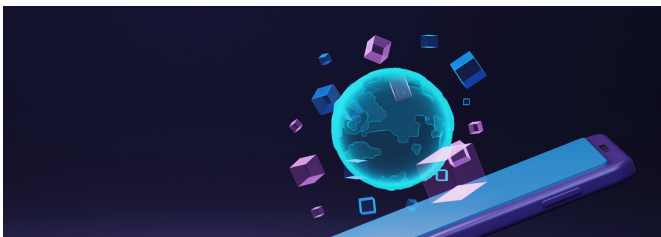
What is ALX Foundations?

- 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.
- Become a well-rounded professional by sharpening your strong points, developing growth areas, and connecting your career path with a purposeful mission.

8 Key Meta Skills

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

Weekly Content



Week 01 – 05: Self Improvement

- Google Suite
- Work Planning & Resource Allocation
- Ethics & Integrity
- Global Challenges/ Opportunities
- Problem Definition and Structuring
- Research & Authentic Enquiry

Week 06 – 10: Group Problem Solving

- Data Contextualisation
- Uncertainty & Modelling in the Real World
- Quantitative Problem Solving
- Understanding the User/Market
- Creating Solutions & Prototyping
- Data Based Decision Making

Weeks 11 – 15: The World of Tech

- Tech Specialisation Introductions
- Identifying Opportunities
- Tech Teams Structures
- Industry Specific Recruiting
- Bio, Website, Portfolio & Pitch

Week 16 onward: alongside – and for the same duration as – your tech track

- The Game of Employment
 - Career Readiness
 - Cover Letters | Resumes | LinkedIn
 - Interviewing & Negotiating
- Revamped Bio, Website and Portfolio
- Networking
- AI & The Future of Work
- Test Taking Strategies

Weekly Schedule

Weekly

Weekly Assessment submission on Tuesdays

Learning Webinars

Learning Webinars happening every Thursday

Monthly

- ALX Foundations Milestone submission.
- Self-Placement Reporting.

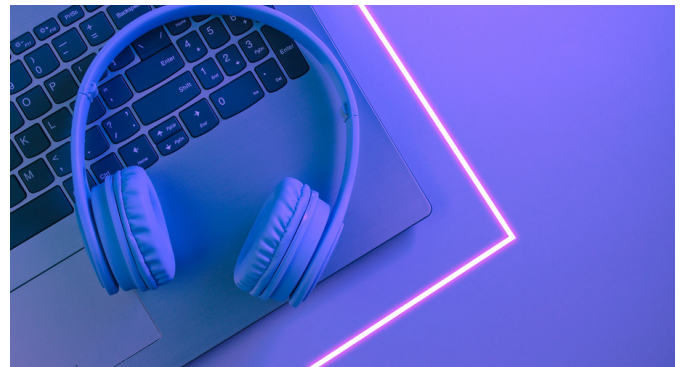
Weekly Content

Week 01 : Explore 101

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

Week 02 – 04 : Preparing Data

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



Week 05 – 08 : Querying Data

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

Week 09 – 12 : Visualising Data

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

