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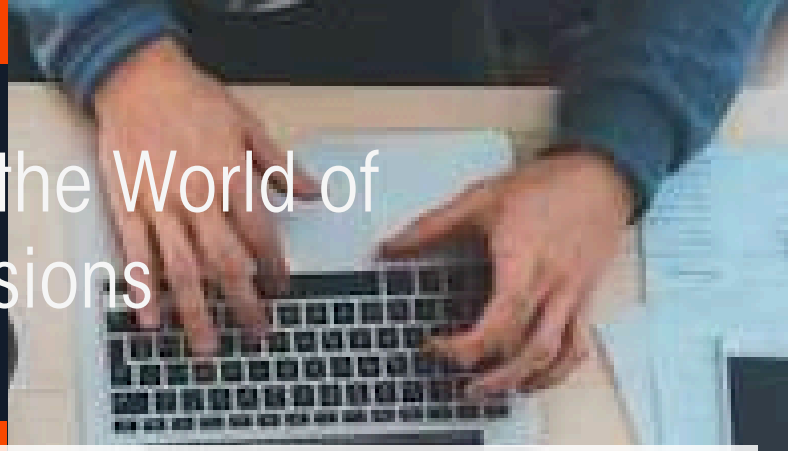
Introduction to Data Science (8 Weeks)

Data Breed Africa

Your Gateway to the World of Data-Driven Decisions



Introduction to Data Science (8 Weeks)

Course Overview

This foundation course provides a practical introduction to the tools and techniques used in data science. You'll work with real datasets and learn the essential skills needed to start your journey in data science, using the same approaches our data team applies in client projects.

Why Learn with Data Breed Africa?

Your instructors are active data scientists who work on real client projects. You'll learn using sanitized datasets from actual business scenarios we've solved, giving you practical exposure to how data science works in the real world.

Entry Requirements

Basic computer literacy and willingness to learn. No prior programming or statistics knowledge required.

Who is this course designed for?

Aspiring Data Professionals, Career Changers, Business Analysts, and anyone curious about how data can be used to solve real-world problems. Perfect for those who want to explore data science before committing to a full bootcamp.

Anticipated Learning Outcomes

Upon completion, you will be able to:

Understand the complete data science workflow and lifecycle

Perform basic data analysis and visualization using Python

Clean and preprocess real-world datasets for analysis

Build and interpret simple machine learning models

Communicate data insights effectively through visualizations and reports

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Course/Program Structure

The 8-week program is divided into two intensive modules with a built-in health break.

Module 1: Data Fundamentals & Python Basics (Weeks 1-4)

Week 1: Introduction to Data Science: Understanding the workflow and applications
Week 2: Python Programming Basics: Variables, data structures, and control flow
Week 3: Data Wrangling with Pandas: Loading, cleaning, and exploring datasets
Week 4: Data Visualization: Creating meaningful charts and graphs with Matplotlib and S

Week 4 includes: Health Break & Practice Session

Module 2: Analysis & Machine Learning (Weeks 5-8)

Week 5: Statistical Foundations: Descriptive statistics and probability basics
Week 6: Introduction to Machine Learning: Concepts and model training
Week 7: Model Evaluation & Communication: Interpreting results and telling data stories
Week 8: Capstone Project: End-to-end analysis of a real-world dataset

- Full Time and Part options available

- 40,000 KES
- Installment plans available

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FAQs – What You Need to Know

Q: How is this different from the full Data Science Bootcamp?

A: This is an introductory course that covers the fundamentals, while the bootcamp is a comprehensive program that goes deep into advanced topics like deployment, big data, and deep learning.

Q: I'm not good at math. Can I still learn data science?

A: Absolutely! While math is involved, we focus on practical application and use libraries that handle much of the complex mathematics behind the scenes.

How Data Breed Africa Delivers This Program

Hands-on learning with real datasets from various industries

Practical exercises that mirror real business problems

Personalized feedback and support from instructors

Access to our data science learning resources and community

Career guidance and pathway planning

Do I Need a Background in IT?

No. This course is designed specifically for beginners with no prior experience in programming or data analysis.

The Jobs This Course Prepares You For

Data Analyst, Business Intelligence Analyst, Junior Data Scientist, Marketing Analyst, Research Assistant

Orientation and Onboarding

Comprehensive setup session to install Python, Jupyter notebooks, and necessary libraries. Introduction to the data science community and resources.

What Our Graduates Say

"This course was the perfect introduction to data science. I went from knowing nothing to being able to analyze datasets and build simple models. It gave me the confidence to pursue a career in data!" - Bridgit Maingi - Business Analyst

Tools You'll Learn:

Python

Pandas

NumPy

Matplotlib

Seaborn

Scikit-learn (Introduction)

Jupyter Notebooks

Next Steps:

After completing this course, students are well-prepared to join our full Data Science Bootcamp or pursue entry-level data roles in the industry.

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