NeXTra
Code . Create . Inspire

Data Science Bootcamp

Intelligence Engineered from Data

Dive deep into the world of data science and uncover how curiosity and computation work together to shape meaningful solutions.

Go beyond mastering algorithms and evolve into a visionary who turns data into innovation, strategy, and real-world transformation.

Course Overview

Data Science blends curiosity, computation, and creativity to transform information into intelligent solutions. This course equips learners with the analytical mindset and technical skills to collect, process, and interpret data using modern tools and machine learning techniques. By going beyond algorithms to understand real-world application, participants learn to turn data into innovation, strategy, and measurable impact across industries.

Why NeXTra?

Applied Learning:
Engage in hands-on, project-based sessions using real-world datasets and industry-grade simulations to develop practical, job-ready skills.

Career Growth Support:
Receive end-to-end career support, from mentorship and skill refinement to connecting with top employers in data-driven industries.

Community & Collaboration:
Learn within a vibrant, supportive community that fosters teamwork, idea sharing, and growth - whether you study full-time, part-time, or through our hybrid model.

Elite Mentors:
Gain insights directly from seasoned data scientists and AI professionals who bring real industry experience and guidance to every session.

Flexible Study Options:
Choose a learning path that aligns with your schedule and career goals. Whether full-time, part-time, or hybrid, your learning experience adapts seamlessly to your lifestyle- anytime, anywhere.

Thriving Network:
Become part of a powerful community of innovators, analysts, and tech leaders shaping the future of data and AI.

Career Pathways in Data Science

- Data Scientist
- Data Analyst
- Machine Learning Engineer
- Research or Quantitative Analyst

Data Science

- Data Engineer
- AI Specialist
- Business Intelligence Analyst
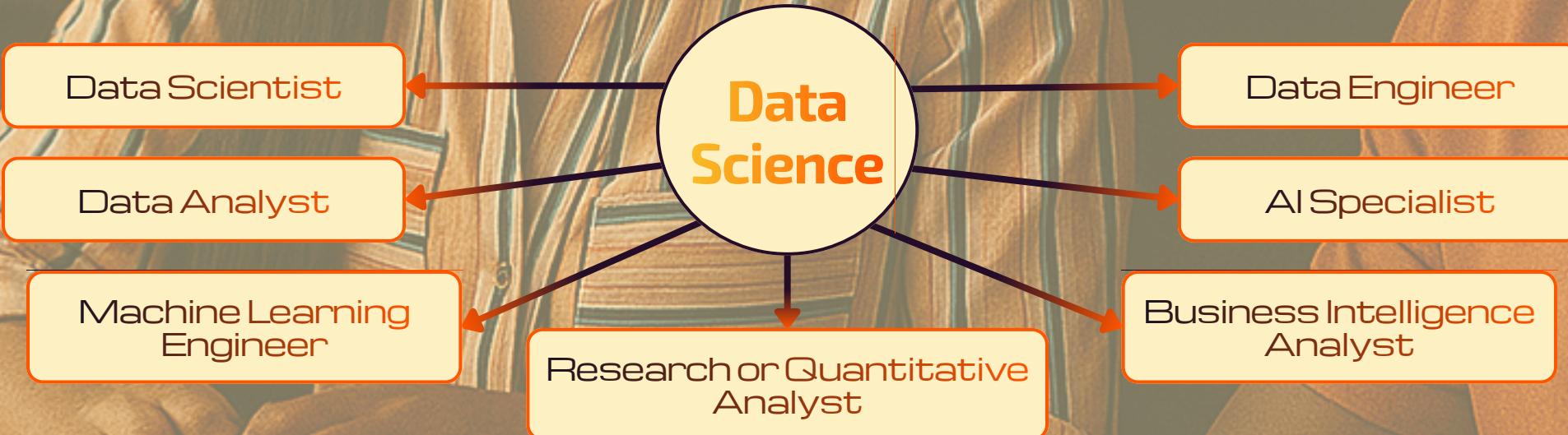
Who Can Join?

Our Data Science course is tailored for driven individuals who want to gain expertise in data analytics and Artificial Intelligence (AI). It's perfect for university students, recent graduates, aspiring data scientists or analysts, and professionals seeking to leverage data for smarter, evidence-based decision-making.

Ideal Candidates

This program is perfectly suited for you if are focused on:

01 **Being a Catalyst for Business Success:** You aim to help organizations - from startups to established firms - leverage data for profound innovation, growth, and sustainable market success.

02 **Innovating and Forecasting:** You are keen on mastering advanced analytics to predict future trends and drive solutions across diverse industries, from finance to technology.

03 **Influencing Decisions with Evidence:** You want to learn how to expertly analyze complex data, provide compelling insights, and shape critical, data-driven decisions.

04 **Accelerating Your Career Trajectory:** You are determined to elevate your current role or successfully transition into the high-demand field of Data Science within a year.

Eligibility and Technical Requirements

To ensure a successful learning journey, all candidates must meet the following criteria:

Academic Prerequisite	Hold or be actively pursuing a qualification from a recognized university or college.
Quantitative Aptitude	Demonstrate a foundational to strong proficiency in core mathematical and statistical concepts.
Dedicated Hardware	Utilize a personal laptop with modern specifications: Core i5 processor or higher, 8GB RAM, and a minimum of 256GB storage (Solid State Drive is strongly preferred).
Connectivity Standard	Maintain reliable and stable high-speed internet access for all sessions.

Our Flexible Learning Paths & Schedules

Mode	Duration	Schedule	Fees
Full-time Hybrid (In-person & Online)	6 Months	Mon - Fri (9 AM - 2 PM)	Ksh. 100000
Full-time Online	6 Months	Mon - Fri (9 AM - 2 PM)	Ksh. 85000
Part-time online	9 Months	Mon - Fri (6 PM-9 PM)	Ksh. 100000

Course Outline:
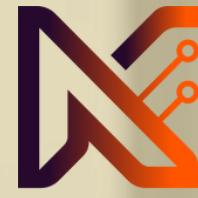
STAGE 1: Data Science Launchpad & Foundational Tools

This initial stage, the Data Science Launchpad, sets the foundation for your journey. It covers the essential core principles, environment setup, and foundational programming necessary for success. You'll master key introductory Data Science concepts, get familiar with the Data Science pipeline, and perform all necessary system configurations and software installations. Crucially, you'll dive deep into Python programming essentials, learning fundamental data structures and control statements (If, For, Functions) to ensure you start the main curriculum on equal footing with your coursemates.

STAGE 2: Data Analytics & Engineering Mastery

In this phase, you focus on becoming proficient in Data Wrangling, Relational Databases, and Visualization Fundamentals. You'll use industry-standard tools like Advanced Excel and Microsoft SQL Server (SSMS), alongside Python libraries (NumPy and Pandas), for comprehensive data preparation, cleaning, and munging. The module covers all aspects of data acquisition, including SQL querying (joins, optimization, relational design), accessing data via APIs, and web scraping. By the end, you'll be able to organize data and use Power BI, Tableau, and Python libraries to create compelling initial data visualizations.

STAGE 3: Scientific Computing & Statistical Modeling

Scientific Computing & Statistical Modeling builds your quantitative expertise. You will delve into Statistical Inference, Hypothesis Testing, and Quantitative Methods. The phase covers core concepts of probability (distributions, Central Limit Theorem) and Exploratory Data Analysis (EDA). A major focus is on applying these skills through Hypothesis Testing (T-Tests, ANOVA, Chi-Square) using Python, which is crucial for decision-making. You'll also learn the foundations of Correlation and Regression, enabling you to build and implement your first simple linear predictive models.

STAGE 4: Machine Learning & Decision Analytics

Machine Learning & Decision Analytics is where you transform data into robust predictions. The module concentrates on Supervised Learning techniques, starting with logistic regression. You'll learn critical model validation techniques, such as using regularization to prevent overfitting and cross-validation to ensure model reliability. Furthermore, this stage integrates Decision Analytics, teaching you Prescriptive and Predictive Modeling through case studies, Monte Carlo Simulation, and Decision Tree construction for strategic decision-making under uncertainty.

STAGE 5: Advanced AI, Big Data & Deployment

This advanced stage is dedicated to Unsupervised Learning, Deep Learning, Big Data tools, and Cloud Services. You'll explore complex methods like clustering and dimensionality reduction, and gain practical experience with Big Data by learning tools like PySpark and utilizing cloud platforms like AWS. The phase also covers Deep Learning and neural networks, with applications like sentiment analysis. Crucially, you'll learn about Data Ethics and Compliance and how to build scalable Recommendation Systems, preparing you for the demands of modern data engineering.

STAGE 6: Capstone Project & Career Readiness

The program concludes with Capstone Project & Career Readiness, integrating all technical and soft skills acquired. This final phase involves a comprehensive Data Science or Machine Learning Project where you individually or collaboratively tackle a real-world problem from start to finish. In parallel, you receive dedicated Soft Skills Training and robust Career Support, including portfolio building, technical assessments, intensive interview coaching, and job readiness training to successfully launch or elevate your career in the Data Science field.

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Our Training Courses:

1. Professional Courses
- Full-Stack Software Engineering Bootcamp
- Full-Stack Website Development Bootcamp
- Data Science Bootcamp
- Data Analytics Bootcamp
- Generative AI Essentials Bootcamp,

2. Certification Programs
- Python
- SQL
- Power BI
- Tableau
- R
- SPSS
- Advanced Excel
- Stata
- CSS & HTML
- JavaScript

3. NeXTra Academy
- High School Tech Bootcamp
- Tech Explorers Junior