

Data Analytics & FDE Course

+ Internship Program



12 weeks of training

1.5 months of internship

Become a Data Analyst

This 12-week training program, followed by a 1.5-month industry internship, is designed especially for beginners. No coding background is needed, and only basic Excel experience is required.

You'll start with the fundamentals and gain hands-on skills in collecting, cleaning, analyzing, and visualizing data with tools like Excel, SQL, Python, Tableau, and Power BI.

Through practical training and real-world projects, including an internship with a client, you'll build knowledge and confidence step by step. By the end of the course, you'll be ready to launch your career as a full-stack data analyst with the skills and practical experience employers are looking for.

Intro to Data Analytics

You'll build a strong foundation for your journey in data analytics. You'll explore the core concepts, methods, and language of data analysis, helping you understand how data informs real-world decision-making across industries.

Specifically, you will learn to:

- Understand what data analysis is, why it's important, and how it drives business decisions.
- Recognize different roles in the field and how they work together.
- Identify various data types and sources of data.
- Become familiar with essential statistical concepts.
- Learn the steps of the data analysis process, from defining questions to acting on findings.
- Gain insight into the structure of modern data ecosystems and databases.

- Understand key terminology and tools used in data analysis.
- Develop problem-solving and critical thinking skills crucial for any analytical career.

Excel

You'll learn how to use Microsoft Excel as a powerful tool for data analysis and reporting. You'll work with real data sets and develop practical skills to efficiently organize, explore, and present information.

Specifically, you will learn how to:

- Import and organize data from various sources into Excel.
- Clean and prepare data using features such as sorting, filtering, and removing duplicates.
- Use formulas and functions, including LOOKUPS, IF, and Pivot Tables—for efficient analysis.
- Create charts, graphs, and dashboards to visualize trends and compare values.
- Build and customize Pivot Tables to summarize and explore large datasets.
- Use Power Query for automating common data tasks.
- Prepare professional reports with effective formatting and layout.
- Build a simple application in Excel.

Power BI

You'll learn how to use Microsoft Power BI, a widely used tool for data visualization and business intelligence. You'll work with different data sources, practice cleaning and transforming data, and build interactive dashboards and reports. You'll develop skills in data modelling, perform calculations using DAX, and learn how to share your reports securely.

Specifically, you will learn how to:

- Connect to and import data from Excel, csv files and databases.
- Use Power Query to clean, filter, and transform data for analysis.
- Create relationships between tables and build effective data models.
- Write DAX formulas for calculated columns, tables and measures.
- Design interactive visuals such as charts, maps, and slicers to explore data dynamically.
- Build and publish reports and dashboards on the Power BI Service.
- Set up data refresh schedules and manage access permissions for secure collaboration.

This practical training will prepare you to apply Power BI confidently in real-world business scenarios and support your path toward Microsoft Power BI certification.

Tableau

You'll learn how to use Tableau, a leading data visualization platform, to turn complex data into clear, impactful visuals and interactive dashboards. You'll gain practical skills to help you analyze

data and communicate your findings effectively.

Specifically, you will learn how to:

- Connect Tableau to multiple data sources such as spreadsheets, databases, and cloud services.
- Clean and prepare data within Tableau using built-in tools.
- Build various visualizations, including bar charts, line graphs, scatter plots, maps, and more.
- Use filters, parameters, and calculated fields to add interactivity and depth to your analyses.
- Create dashboards and combine multiple views for a comprehensive perspective.
- Apply design best practices to ensure your visualizations are clear, accessible, and engaging.
- Publish and share dashboards securely via Tableau Public or Tableau Server.

SQL

You'll learn how to use SQL (Structured Query Language), the essential language for working with databases and extracting meaningful information from large datasets. You'll develop hands-on skills that are highly valued in data analytics roles across all industries.

Specifically, you will learn how to:

- Understand the fundamentals of relational databases, tables, and key database concepts.
- Write SQL queries to select, filter, and sort data from single and multiple tables.
- Aggregate data with functions such as COUNT, SUM, AVG, MIN, and MAX.
- Group and summarize results using the GROUP BY and HAVING clauses.
- Use JOIN operations to combine data across tables for deeper analysis.
- Use subqueries and common table expressions (CTEs) for more advanced analysis.
- Apply best practices for query structuring and interpretation of query results.
- Work with real-world datasets to gain practical experience solving business questions.

Python

You'll learn how to use Python—one of the most popular programming languages in data analytics—to organize, analyze, and visualize data. Through hands-on practice, you'll develop practical coding skills that are in high demand across the analytics field.

Specifically, you will learn how to:

- Understand fundamental Python programming concepts, variables and data types.
- Work with essential data structures such as lists, dictionaries, and data frames.
- Use Python libraries like pandas for data manipulation and cleaning.
- Analyze data sets using descriptive statistics and exploratory data analysis techniques.
- Visualize trends and patterns with powerful tools like Matplotlib and Seaborn.
- Import, export, and process data from spreadsheets, CSV files, and online sources.
- Write reusable code for common data tasks, improving workflow efficiency.

- Apply problem-solving skills to tackle real-world analytical questions.

KPIs and A/B Testing

You'll learn how to identify, track, and interpret key performance indicators (KPIs), and how to use A/B testing to make data-driven decisions. These essential skills will enable you to measure success, evaluate strategies, and recommend improvements in a business context.

Specifically, you will learn how to:

- Define KPIs that align with business goals and understand their importance for different industries.
- Select and calculate relevant metrics for evaluating performance, campaigns, or processes.
- Design and implement effective dashboards and reports to monitor KPIs.
- Understand the fundamentals of hypothesis testing.
- Set up and execute A/B tests to compare different options or strategies.
- Analyze and interpret A/B test results using basic statistical techniques.
- Identify statistical significance and draw actionable conclusions from testing.
- Communicate findings and recommendations clearly to stakeholders.

FDE : AI Agents & ChatGPT for Data Analysts

In this module, you'll explore how artificial intelligence (AI) agents are transforming the work of data analysts. You'll learn to leverage AI-powered tools to automate tasks, accelerate insights, and enhance your data analysis capabilities in practical business scenarios.

Specifically, you will learn how to:

- Understand the fundamentals of AI agents, including what they are and how they integrate into data analytics workflows.
- Apply generative AI and natural language models to support data exploration, querying, and storytelling.
- Use AI tools to generate and iterate on mockups and wireframes for dashboards, ensuring efficient design and stakeholder feedback.
- Critically evaluate the reliability, accuracy, and ethical implications of AI-driven analytics.
- Integrate AI agents with established tools (such as Excel, SQL, Python, and BI platforms) to streamline analysis.
- Stay up to date with emerging trends and capabilities in AI for analytics.

Storytelling with Data

You'll learn how to transform data analyses into compelling stories that drive understanding and action. You'll explore the principles of narrative structure, effective visualization, and clear communication to present insights in a way that resonates with different audiences.

Internship

During this 1.5-month internship, you'll have the opportunity to apply your data analytics skills on a real-world client project. Working under guidance, you'll engage directly with a business or organization to solve genuine data challenges.

Specifically, you will:

- Work on a live project provided by an actual client, gaining practical, hands-on experience.
- Apply the tools and techniques learned throughout the program (such as Excel, SQL, Tableau, Power BI, Python, etc.).
- Follow the complete analytics process: defining the problem, gathering and preparing data, conducting analysis, and communicating your findings.
- Collaborate with professionals, receive feedback, and iterate on your approach as needed.
- Present your final results and recommendations to the client and program mentors.

This internship is designed to bridge classroom learning with professional experience, helping you build confidence, expand your portfolio, and prepare for a career in data analytics.

Job Search Strategies

You'll learn how to successfully navigate the job search process and prepare for a career in data analytics. The focus is on building your confidence and equipping you with practical tools and techniques to stand out to employers.

Specifically, you will learn how to:

- Identify effective job search strategies, including where to find relevant roles and how to network in the industry.
- Build a professional resume and tailor it for data analytics opportunities, highlighting your skills and project experience.
- Write cover letters that showcase your strengths and enthusiasm for analytics roles.
- Prepare for interviews through mock interview sessions, with practice answering popular and technical questions commonly asked for data analytics positions.
- Respond to behavioural and situational interview questions using proven frameworks.
- Present your portfolio and discuss your project experience clearly and confidently.
- Leverage LinkedIn and other online platforms to create a strong professional profile.
- Evaluate job offers and navigate the early stages of a new analytics career.