

Essential Math for Data Analysis using Excel Online

Modality: On Demand

Duration: 24 Hours

About this Course:

This course is included in the Microsoft Professional Program for Data Analysis and is an advanced-level course for Data Analysts and Mathematicians. This covers key elements of data analysis starting from the basics to advanced concepts. The teachings of this course set up a strong base of data and mathematics fundamentals and build the needed analytical skills. Eradicating the mathematical barriers and complications, this course makes it easy to analyze data and make the best use of information.

The Essential Math for Data Analysis using Excel Online is a perfect course for Professionals seeking to revise their data analysis skills and Data Analyst striving for excellence. This course covers the following topics in a comprehensive way, Data Handling, Mathematical Notations, Data Summarization with Graphs and Distribution, Business Metrics, Inferential Math Fundamentals, Future Data Trends Prediction, and many more. These teachings train professionals to analyze data belonging to any discipline and field of work.

Course Objectives:

The core objective of this course is to help professionals get a better understanding and conceptual knowledge of the following key principles:

- Data Handling and Management for Analytical Purposes
- Fundamentals of Mathematical Symbols and Notations
- Working with Different Data Classes
- Using Graphs and Distributions for Summarizing Mathematical Data
- Analyzing Data Sets by the Application Summary Statistics
- Deriving Business Value and Calculating KPIs and Business Metrics from Data Sets
- Inferential Mathematics Application on Data Sets
- Using Forecasting Tools to Predict Future Data Trends

Audience:

This course is for the following group of professionals and interested candidates:

- Mathematician
- Data Analysts

Prerequisite:

There are no obligatory prerequisites for Essential Math for Data Analysis using Excel Online Course. Interested candidates only need to have the surface knowledge of working with Microsoft Excel

Course Outline:

Introduction Data and Variables

- Math and Data
- Types of Data
- Introduction Notation and Formulas

Summarizing Data with Distributions and Graphs

- Histogram Overview
- Skew
- Non-Normal Distributions
- Bar Graphs and Pie Charts

Summary Statistics

- Mode, Mean, Median
- SD vs IQR
- Proportions

Business Statistics

- Introduction KPIs
- Business KPIs

Introduction Inferential Math and Forecasting

- Forecasting Concepts
- T-Test Comparing Two Groups
- Time Series Forecasting

Final

- Final Exam
- Closing