

Course Code: 821567

Learn the fundamentals of Data Analysis, methodologies, and statistics.

Data Analysis is a process of applying statistical and mathematical techniques systematically to understand, explore, and analyze data to find patterns, and draw inferences that help businesses make data-driven decisions. This typically involves multiple activities such as data collection, exploration, cleaning, pre-processing, and organizing data. Many times, data analysis is an iterative ongoing process where the data is continuously collected and analyzed simultaneously. There are two primary methods for data analysis.

Qualitative techniques and quantitative techniques. Quantitative data analysis techniques involve working with quantitative/numerical data including statistics, percentages, and calculations. These techniques also include working with algorithms, mathematical analysis tools, and software to manipulate data and uncover hidden business value. For example, quantitative data analysis used to assess market data helps a company decide a price for its new product. Qualitative data analysis involves, working with non-numerical data i.e categorical variables. Qualitative data analysis is also used in many business processes, such as identifying themes and patterns, answering research questions, etc to improve a product.

This course provides an overview of data concepts and what data analysis is and then deep dives into the fundamentals of Data Analysis such as statistics and probability. This course also focuses on widely used data analysis methods such as regression along with detailed steps to perform the same.

*Must have Microsoft Excel in order to complete class activities.

What You'll Learn

- Data Analysis process, benefits and use cases
- Basic of Probability and Statistics
- Measure of data spread and distributions
- Inferential Statistics and Hypothesis Testing
- Applications of Statistics and Probability theory
- Forecast trends using linear regression analysis

Who Needs to Attend

This data analysis course is perfect for anyone who needs an introduction to Data Analysis such as

- Business Analysts
- Management
- Engineers
- Developers

Prerequisites

- Some familiarity with data terminologies
- MS Excel for Excercises



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CLASSROOM LIVE

\$1,495 USD

2 Day

Classroom Live Outline

All about Data

- □ Data in the real world
- A brief on various formats and sources of data

- □ Data processing types

· Introduction to Data Analysis

- Applications and Use Cases of Data Analysis
- 🛮 Data Analysis Methodology
- Numerical vs Categorial Variables

Descriptive Statistics

- Measures of Central Tendency
- Measures of Dispersion

Inferential Statistics

Introduction to Probability

- Axioms of Probability
- $\[mu]$ Conditional Probability and Bayes theorem
- $\[\]$ Applications of Conditional Probability

Understanding Probability Distributions

- □ Discrete Probability Distributions
- N Performing Distributions in Excel
- My understanding Data Distributions is important for Data Analysis

Data Analysis Process

- ☐ Understanding univariate vs Bivariate vs Multi variate data analysis
- □ Understanding Regression
- Multiple Linear Regression

Introduction to Predictive Analytics



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VIRTUAL CLASSROOM LIVE \$1,495 USD

2 Day

Virtual Classroom Live Outline

All about Data

- A brief on various formats and sources of data

- □ Data processing types

· Introduction to Data Analysis

- Applications and Use Cases of Data Analysis
- 🛮 Data Analysis Methodology
- Numerical vs Categorial Variables

Descriptive Statistics

- Measures of Central Tendency
- Measures of Dispersion

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Inferential Statistics

- Population and Sample

Introduction to Probability

- Axioms of Probability
- $\[mu]$ Conditional Probability and Bayes theorem
- $\[\]$ Applications of Conditional Probability

Understanding Probability Distributions

- □ Discrete Probability Distributions

Data Analysis Process

- Multiple Linear Regression

Introduction to Predictive Analytics

Oct 20 - 21, 2025 | 8:30 AM - 4:30 PM EDT

Dec 4 - 5, 2025 | 8:30 AM - 4:30 PM EST

Feb 12 - 13, 2026 | 8:30 AM - 4:30 PM EST



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PRIVATE GROUP TRAINING

2 Day

Visit us at www.globalknowledge.com or call us at 1-866-716-6688.

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