

# Data Analytics Foundations Course Online

Learn the fundamentals of data analytics, including descriptive and inferential statistics, and how different industries and organizations use data for forecasting and decision-making. Explore statistical analysis and modeling, including statistical algorithms, theorems, and models.

For more information, visit

<https://cl.nobledesktop.com/tech/courses/data-analytics-foundations>



## Course Outline

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### Basic Data Analysis

- Measures of Central Tendency
- Measures of Position
- Measures of Dispersion
- The Normal Curve
- Descriptive Statistics

### Predictive Analytics I

- Forecasting
- Series Forecast

### Data Visualization I

- Charts
- Icon Sets
- Histograms
- Moving Average

### Predictive Analytics

- Correlation
- Regression - overview
- Regression - analysis

- Linear regression
- Multiple regression

## Probability

- Probability I
- Probability II
- Binomial Probability
- Poisson Probability

## Prescriptive Analytics I

- What If Analysis
- Data Table (3 variables)
- Scenario Manager
- Scenario Manager - Pivot

## Data Visualization II

- Sparklines
- Color Scales
- Drawing Shapes
- Pivot Tables
- Pivot Charts

## Prescriptive Analytics II

- Solver - overview
- Linear Programming
- The Solver model
- Non-Linear Programming
- Evolutionary Solver