

# Data Analytics Foundations Course Online

Learn the fundamentals of data analytics, including descriptive and inferential statistics, and how various industries and organizations rely on data for forecasting and decision making. Explore statistical analysis and modeling, covering statistical algorithms, theorems, and models.

Group classes in Live Online and onsite training is available for this course. For more information, email [partnerships@vdc.edu](mailto:partnerships@vdc.edu) or visit: <https://vdc.edu/courses/data-analytics-foundations-online>



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## Course Outline

### 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