COURSE SYLLABUS

Data Analytics Foundations Course Online

Master the basics of data analytics, including descriptive and inferential statistics, and understand how various industries and organizations leverage data for forecasting and decision-making. Dive into statistical analysis and modeling, exploring key algorithms, theorems, and models used in the field.

Group classes (Live Online) and onsite training are available for this course. For more information, email partnerships@vdci.edu or visit: https://vdci.edu/courses/data-analytics-foundations-course-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