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COURSE OUTLINE

EDA – Graphing and Descriptive Statistics

Course Overview

The EDA I course is an introduction to data analysis. Data Analysis can be divided into three parts: Extraction, Transform, and Visualize. During this course, attendees will learn to visualize and summarize their data in preparation for more advanced analysis.

Intended Audience

This Exploratory Data Analysis in R course intended for individuals, data analysis, data scientists and researchers that have a working knowledge of the R programming language.

Prerequisites

Attendees must download the R and the R Studio IDE onto their personal laptops.

Learning Objective

- Understand the significance of Exploratory Data Analysis in Data Science
- Learn techniques to organize, summarize, and prepare raw data
- Implement data cleansing and validation tasks
- Learn to invoke basic EDA methods to understand datasets in preparation for more advanced analysis
- Discuss what the data tells us? (In contrast to "confirmatory" data analysis)
- Learn 5-Number summary, Box plots, Stem and Leaf Diagrams
- Learn Extremes (min and max), Median & quartiles
- Identify more robust to skewed & long tailed distributions

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