

# Introduction to Data Science

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# Outline

- Bivariate Data Analysis

# Bivariate Data Analysis

- The bivariate analysis aims to determine if there is a statistical link between the two variables and, if so, how strong and in which direction that link is.
- Bivariate analysis helps identify trends and patterns.
- Bivariate analysis helps identify cause and effect relationships.
- It helps researchers make predictions.
- It helps inform decision-making.

# Bivariate Data Analysis

- Scatter Plot
- Line Plots
- Count plots
- Box Plots
- Swarm Plots

# **Bivariate Data Analysis**

- Continuous Variables
- Categorical Variables
- Correlation vs. Causality

# Summary

## Bivariate Data Analysis