Introduction to Data Science

Dr. Irfan Yousuf

Department of Computer Science (New Campus)

UET, Lahore

(Week 6; February 19 – 23, 2024)

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