

Summary Report

Project Overview

In this project, a simple mobile application dataset was analyzed to understand how app ratings vary across different categories and app types. The analysis focused on data cleaning, exploratory data analysis, visualization, and basic statistical testing.

Dataset

A CSV dataset containing Category, Rating, and App_Type (Free or Paid) was used.

Data Cleaning

The dataset was inspected for missing values. Records with missing ratings were removed, and rating data types were verified to ensure accurate analysis.

Exploratory Data Analysis and Visualization

Average ratings by category were calculated and visualized. Ratings of Free and Paid apps were compared using a boxplot to observe distribution differences.

Statistical Test

An independent two-sample t-test was performed to compare Free and Paid app ratings. The results showed a statistically significant difference between the two groups.

Conclusion

Ratings are generally high across categories. Paid apps tend to have slightly higher ratings than Free apps. The project objectives were successfully achieved using basic data analysis techniques.