

Analyzing IMDb Scores and Ratings for Netflix Titles

Overview

The primary aim of this project is to conduct a comprehensive analysis of IMDb scores and ratings, age certification ratings, and the evolution of content quality over time for TV shows and movies on Netflix. This multifaceted approach serves several key objectives.

Directory Structure

1. Data:
 - Raw Data: Contains the original, uncleaned datasets.
 - Processed Data: Stores the cleaned and preprocessed data.
2. Scripts:
 - Contains scripts used for data processing and analysis.
3. R:
 - Contains the Run_Analysis.R script, which orchestrates the analysis by running scripts in the Scripts directory.
4. Results:
 - Stores the outputs of your analyses.
 - Figures: This subdirectory contains all the visualizations generated from the code.
5. Docs:
 - Includes documentation files like Netflix_IMDB_Score.Rmd, which might contain detailed analysis, reports, or findings.

Files Description

1. Data_Analysis_&_Visualization.R:
 - Analyzes the cleaned Netflix dataset and generates various visualizations, including histograms, pie charts, scatter plots, and bar plots to explore IMDb scores and content distribution.
2. data_preprocessing.R:
 - Handles the cleaning and preprocessing of the raw Netflix dataset, including handling missing values and formatting.
3. Run_Analysis.R:
 - The main script that runs the preprocessing and analysis scripts.
4. Netflix TV Shows and Movies.csv:
 - Raw dataset containing information about Netflix titles, including type, description, release year, IMDb score, and more.
5. Netflix_IMDB_Score.Rmd:
 - An R Markdown file containing detailed documentation and all the analysis & visual of the written code from the scripts files.

How to Run the Project

1. Ensure you have R and the required libraries (**tidyverse**, **ggplot2**, **dplyr**, **plotly**, **htmlwidgets**, **knitr**) installed.
2. Clone/download the project directory to your local machine.
3. Run the **Run_Analysis.R** script. This will execute the preprocessing and analysis scripts in sequence.

Results Interpretation

1. Check the **Results/Figures** directory for the visualizations generated from the analysis.
2. For detailed insights and findings, refer to the **Netflix_IMDB_Score.Rmd** in the Docs directory.