ISSS608 Visual Analytics and Applications Jan 2023 - Group 13 Visual Analytics Project



User Guide

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1. Overview

This app serves the trends and analysis to explore movie data and get insights.

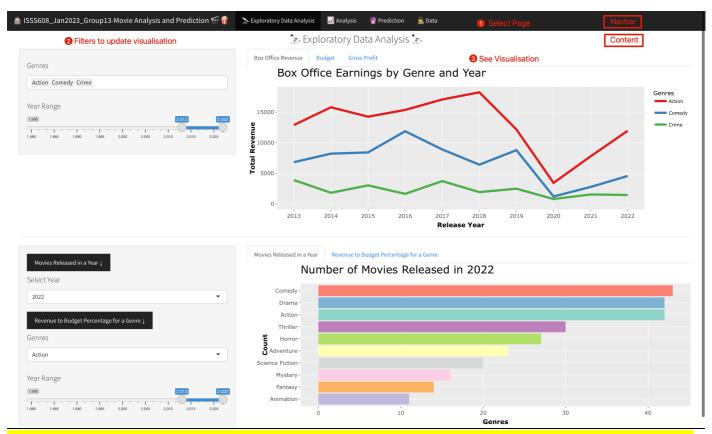
The app has 4 pages:

- 1. Exploratory Data Analysis (EDA)
- 2. Analysis
- 3. Predictions
- 4. Data

Use the navbar to navigate to the desired visual plot.

Each page may have different filters to choose from. These filters can help to restrict the data and get pots based on selection.

These filters can be found on the left side of the page and right side plots get affected based on the selection automatically.



All visualisation have many different features like hover to view values, zoom-in, zoom-out, download etc.

Genre selection can be selected from list or typed out to filter list of available selections.

2. Exploratory Data Analysis (EDA)

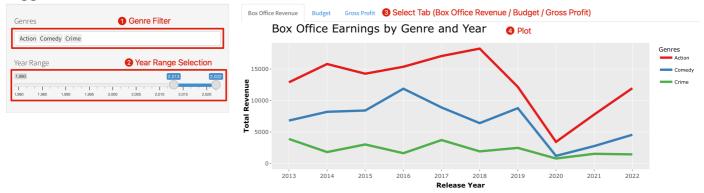
EDA contains following plots:

In the first half, there is Box Office Revenue, Budget and Gross Profit tab where data can be filtered based on Genre and Date Range selection.

Genre Filter can have maximum of 5 selection.

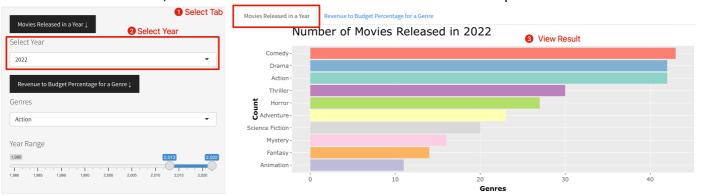
Date Range can be selected from 1980 to 2022.

Toggle different tabs to see data based on the tab selected.

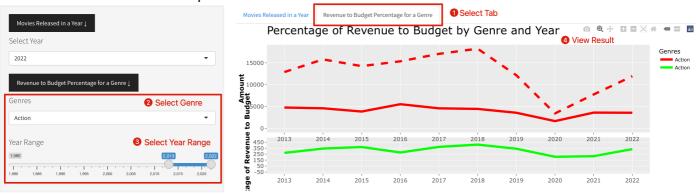


In the second half, there are 2 tabs:

Movie Released in a Year, Select the Year from left side menu. Result will be updated based on selection.



Revenue to Budget Percentage for a Genre, Select tab, select the filter criteria Genre and Year Range from left side menu. Result will be updated based on selection.



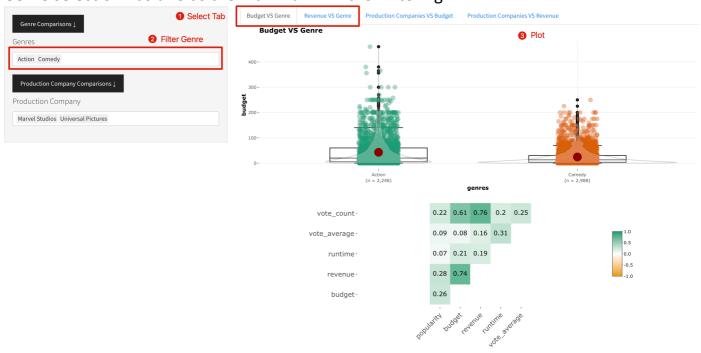
3. Analysis

Analysis have 2 types of Tabs:

Budget VS Genre and Revenue VS Genre

Select the tab for plot. Select Genres to filter and the plots will be updated with filtered data.

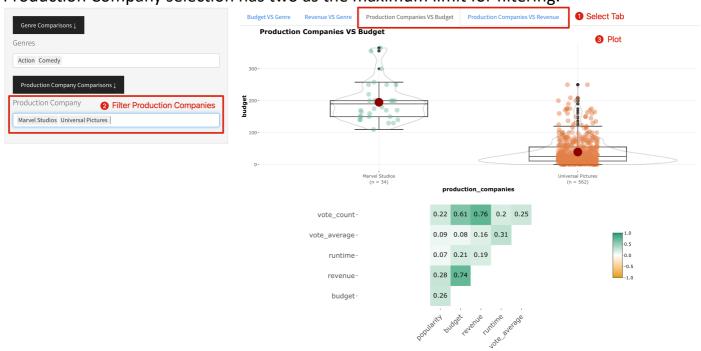
Genre selection has two as the maximum limit for filtering.



Production Companies VS Budget and Production Companies VS Genre

Select the tab for plot. Select Production Companies to filter and the plots will be updated with filtered data.

Production Company selection has two as the maximum limit for filtering.



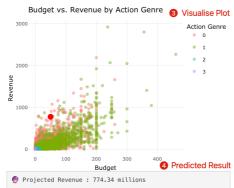
4. Prediction

Prediction Page has a Revenue Prediction based on Budget and Genre selection. Select Genres (max up to 5) and input the budget (in millions). The plot will update the prediction with a red rot highlighting the prediction of revenue for the specified filters.

Projected Revenue is also printed as text.

Historical mean revenue by Genre can be used for comparing it with the predicted revenue.







5. Data

Data page allows to view the raw data used in the app.

On the left side, there is option to select no of entries per page.

On the right side, there is search box to filter rows if the keyword is found.

The Data table can be viewed and can be sorted (Ascending / Descending) by any available column by clicking on the column name.

