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TV Show Popularity Analysis Using Data Mining

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Abstract: Evaluating and updating TV programs using data mining. Guessing the popularity of the TV show is an exciting activity with a growing interest in people in TV dramas. A simple guess of a trending TV game based on individual ratings can be made. Simple predictions of trending TV shows based on individual ratings can be made based on the target audience (Age, Year of Release, Rotten Tomatoes, etc.).

Keywords: TV Show, Data Mining, Popularity Analysis, Data Visualization, IMDB Dataset

I. INTRODUCTION
Evaluating and rating TV shows using data mining. Guessing the popularity of the TV show is an exciting activity with a growing interest in people in TV shows. A simple guess of a trending TV show based on individual ratings can be made. Simple predictions of a trending TV show based on individual ratings can be made based on the target audience (Age, Year of Release, Rotten Tomatoes, etc.). This project uses machine learning to compare TV Shows to analyze their popularity. A set of data is categorized and calculated show views, based on limited display views. Once the rating is done their comparisons are made using data visualization, ratings for different television shows can be viewed using bar graphs, pie charts, and histograms.

II. PROBLEM STATEMENT
It is necessary to create a prediction model that acts as a rating system that will be useful to those who are willing to watch a particular show. They will also be able to get feedback from previous audiences and provide support for new audiences. A large website of online websites and social networking sites will be used for the same. TV shows have gained more popularity among people than anything else in the last decade.

III. OBJECTIVE
A. To show a comparison between different TV shows.
B. Visualization of the data to find useful insights.
C. Developing an interactive user interface

IV. LITERATURE REVIEW
TV shows are thriving worldwide each day. The popularity of the TV show using data mining. A simple guess of a trending TV game based on individual ratings can be made. TV shows will be rated based on the number of viewers. The more you look, the more they will earn. Then their comparisons can be viewed in the form of graphs using data visualization.

A. Current System
1) Motion picture Success Prediction utilizing Data Mining: The systems were connected to the film website and therefore the data met the improvement and intermixture method before drilling ways were used. the knowledge mine manages samples of the knowledge provided and detects patterns. It detects hidden patterns and connections between totally different objects. Such communication will separate chronology, coming up with an assortment. They provided a very important model for this investigation that would cut back the probabilities of disappointment and supply colleagues with a transparent assurance and prediction of progress.
2) Group of onlookers Rating Prediction of TV Dramas dependent on the Cast: Yusuke Fukushima, Toshihiko Yamasaki and Kiyoharu Aizawa of the University of Yedo in 2016 took a firearm at a check to check the performance of the sport before communication while not victimization video or a bunch of viewers' reaction to them. Considering the flow of featured artists enclosed, the daily comments on Wikipedia of screen actors and their posts on Twitter were used as symbols of information. it had been clear that the show gets a high rating once there square measure totally different known characters on screen.
3) Limitation: The limitation is that these forums have one feature. Some platforms even need funding to use a number of options. to realize such options, viewers should purchase them.
V. METHODOLOGY

The methodology includes the steps to be followed to achieve the objective of the project during the project development.

1) Gathering data from IMDB data.
2) Cleaning data to have homogeneity.
3) Model building, selecting the right algorithm.
4) Gaining insights from the model results.
5) Data visualization - transforming data into a graph

A. Project Flow Diagram

Fig 1: Activity Diagram

Fig 2: Sequence Diagram
Fig 3: Use Case Diagram

Fig 4: ER Diagram

B. Implementation Images

Fig 1: TV Show Title WorldCloud 100 Words
Fig 2: TV Shows based on IMDB rating

Fig 3: Analysis of Year Releases
VI. RESULT DISCUSSION

Briefly illustrate the outcomes of the project development along with the benefits to society.

A. The proposed system should be able to predict the rating of various tv shows accurately.

B. The system should also be able to generate graphs based on various factors to gain meaningful insights into the popularity of TV shows.

C. The system will be able to plot graphs based on gender, age and location.
VII. CONCLUSION

This is the conclusion that the project we have undertaken has been carried out with sincere effort. Most of the requirements are met up to the mark and the remaining requirements can be completed with a short extension. Designed to speculate model to predict the popularity of tv games based on IMDB databases. The model uses a database to predict estimates based on a variety of factors. The results will be accurate based on the data we will receive using data mining and machine learning. This project will cater to all the needs of students and will be of benefit to aspiring writers and beginners.

VIII. ACKNOWLEDGEMENT

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