Fall 2021 CSE482 Project Report

Movie Rating Recommendation

With Web-Based User Interface

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Introduction

As the amount of online information continues to grow, recommendation systems have become overcoming such information overload. The utility of the recommendation system cannot be overemphasized because it is widely used in many fields. Web applications, and its potential impact on improving many of the problems associated with over-selection.

Therefore, we decided to follow the trend, develop, and explore algorithms, web-based user interface prototypes, training data, and compare the results of predictive scores to develop our data mining/analysis skills, and as a gift for the hard work of our Prof. Tang.

Problem description

Proposed solutions

Frontend:

We decided to use Anvil for python-based frontend interactive user interface after some research. It has the functionality called Uplink enabling the ability to use, call and edit the SQL database, user management system, mapping the input to designated forms on the Anvil client, which is the server that is running the frontend code.

Experiments

Lessons learned and future work

1. Clearly structure all the essential components: layout structure of databases, clearly function names and functionality.
2. Anything related to the editing, recording should be prearranged and sort out all the formatting, resolutions, software, hardware.
3. We should try to set up all the environment and try to start writing codes that perform the specified tasks and then we learn our lessons of what we need for development, like asynchronous functions, parallel programming.
4. Design the front end appearance in advance, define what button calls what function in which file.
5. Try to develop a first version of prototype, a rough draft. And then iterates versions, but keep the technical specs well defined, or at least, perfect it in the first one or two iterations.
6. Do not chase perfections, only iterations make prototype stable for submission at any time. And then we can perfect it as needed.