



Department of Computer Science & Engineering

UE17CS355 - Web Tech II Laboratory

Project Evaluation

Project Title : Movieflix -Movie Streaming & Recommendation System

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Project Description

Movieflix, a Movie Recommendation and Streaming site is a platform where users can conveniently stream their favourite movies and TV shows, all at the click of a button.

What's more?

It also provides you with the recommendations of the movies that are similar to the ones that have been watched in the past by other users, taking their ratings into consideration.

An example of recommendation system is such as this:

- > User A watches **Game of Thrones** and **Breaking Bad**.
- > User B does watches **Game of Thrones**, then the system suggests **Breaking Bad** from data collected about user A.



Technologies Used

Backend:

Framework: Django

Languages : Python

Database : Sqlite3

Frontend:

Framework: jQuery

Languages:

- HTML5
- CSS
- Bootstrap



Techniques Implemented

- 1) We have used an **AJAX pattern-Multistage Download** in our website. When the user clicks on a movie, the entire page will download in multiple stages, i.e., the content will not come all at once. The text content, i.e., the title and Movie release date loads first, followed by the video and then the menu.
- 2) Next, we used **RSS feeds** to publish frequently updated information such as news headlines. A standard XML file ensures compatibility with many other machines. RSS feeds also benefit users who want to receive timely updates from favourite websites or to aggregate data from many sites.



Movie Recommendation System:

We have used Python packages like Pandas and Numpy for data handling, and scikit package, Surprise, for building a recommendation system.

Two types of recommendations are implemented:

Collaborative Filtering: This system matches a person's interests with other users and recommends movies based on what those users have liked. A latent factor model is constructed to capture similarities between users and items in the form of a utility matrix. SVD decreases the dimension of the utility matrix by extracting its latent factors. We are using Surprise package to implement SVD

Demographic Filtering: A simple, generalized recommendations to every user based on movie popularity.



Thank You

