

Project Progress Report

NS3886 - Navinashok Swaminathan

Overview :

For my project I am building a browser extension based music recommendation system in the domain of anime.

So for my project I would be building a chrome extension wherein users can login using their Anilist account. For every logged in user , data will be collected about the anime they watched and the ratings they gave for each of them. A user profile is created out of this information and anime songs(through youtube/soundcloud etc) are recommended based on this using multiple recommender models. The models are then compared based on their average watchtime, like to view ratio.

Research Questions :

How do the different item based recommendation models compare against each other?
(determined from average watchtime, like to view ratio).

To what extent are item-only based models feasible compared to existing recommendation systems? (determined from user rating of extension).

Value to User Community

Currently the only active project dedicated in this space that I'm aware of is <https://openings.moe/> however it doesn't take into account the user's taste in anime to recommend songs and is just a random song generator everytime you visit the page. So intend to make the git repo open source so that active development can be done in this space.

Demo:

A short demo of the working application , as well just a report of the aggregated data. Demo includes logging in with anilist, uploading profile, and going through some recommendations.

Delivery:

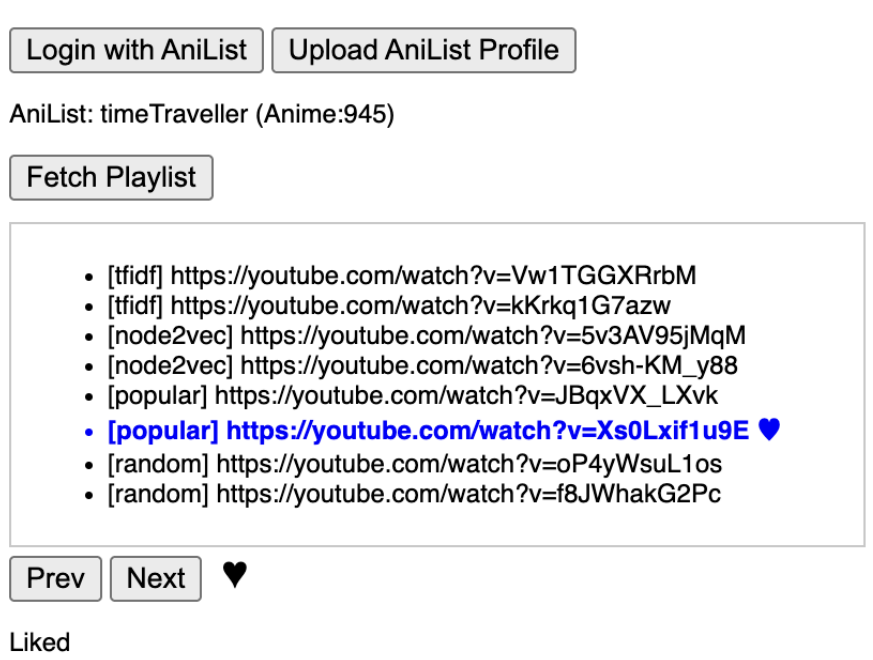
A public Github Repository will have all the code, data and documentation.

Progress :

Data : I had written batch scripts to collect more than 7000 anime songs from 700+ anime as there were daily api rate limits.

Backend : I am almost done with local development of my backend.

Frontend : this is my current ui for my extension.



Todo:

I am currently exploring sentence transformers taking into account the feedback I received in my last presentation to consider using LLMs. Once I complete a model for that , I'll integrate that into my backend as well.

I'll polish my UI a little more by using anime and song names instead of urls.

Deployment is yet to be done and scalability is also a point of concern.