Anime Reccomendation System

Anila Qureshi

Business Overview

Anime is a hand drawn and computer animation originating from Japan. Its visual nature is a big part of its appeal to its viewers. 60 % of all animation orginates from Japan. This reaches about 87% of the global population. This does not mean it is watched by 87% of the world. During uncertain times such as the covid19 pandemic, it important to build strength and growth in areas that are holding a steady pace in order to help make up for the economic downturn in other sectors of each country's economy.

Japan has recently been one of the first to declare a nationwide recession due to covid19.

Methodology

- Created a baseline model using singular value decomposition (SVD).

- Will then introduce other models that are user and item based.

- GridSearchCV and cross-validation will also be conducted on all models

Baseline Model

```
{'rmse': 2.7752982992400335, 'mae': 2.6844}
{'rmse': {'n_factors': 20, 'reg_all': 0.02}, 'mae': {'n_factors': 20, 'reg_all': 0.02}}
```

- The RMSE shows that there is no good or bad threshold for the base model.

Suggestions

- My current suggestions for my project are to go back and conduct an ALS model and or a model using NLTK for categorical data.
- From here I would look at its RMSE to see if its more reasonable. If I don't have the time to do that, my professional suggestions are to add in some features on release date and animation studio and try to also recommend people based off of this(as stated in readme.md)

Sources

http://news.mit.edu/2013/the-soul-of-anime-0129

https://uk.reuters.com/article/uk-japan-economy-gdp/japan-slips-into-recession-worst-yet-to-come-as-pandemic-wreaks-havoc-idUKKBN22T0VF

https://www.google.com/search?q=japan+first+to+claim+nationwide+recession&rlz=1C5CHFA_enGB891GB891&oq=japan+first+to+claim+nationwide+recession&aqs=chrome..69i57j33.6696j0j4&sourceid=chrome&ie=UTF-8