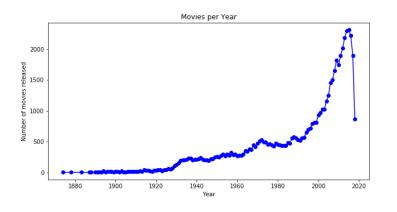
Northwestern

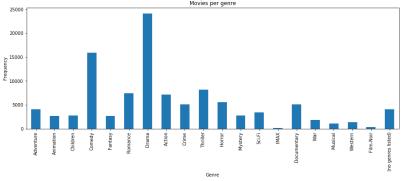
MSiA 423 Mid-project Review: Movie Recommender

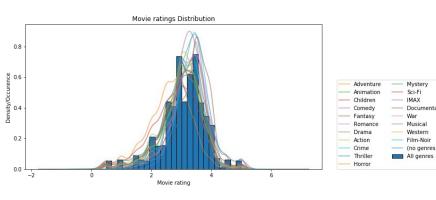
By: Sabarish Chockalingam

Highlights

- Interesting fact: Ratings only started coming in from about 1997 (when movie lens started).
- Below are visualization that helped with EDA and will aid when modelling.







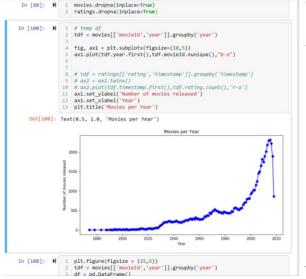
Review progress

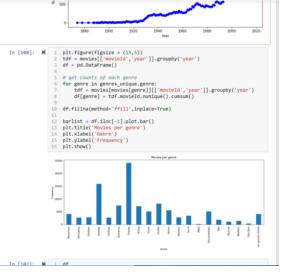
- Imported Data and perform EDA. (2 pt)
- Stored data set in S3. (1 pt)

Demo/analysis

Visualization of notebook showing EDA.







Lessons learned

- Recommender may not be as easy to evaluate as previously expected since 5 point rating system is not very accurate. For example, it is hard to distinguish top 5 movies for users who rate most movies 5 stars.
- Planning to do the following to improve speed of recommender:
 - Ask user to pick genre.
 - Limit data to be from 1985 to present.

Recommendations

- The following stories are essential for the core app and should be completed next.
 - Create Train and Test Data set. (0 pt)
 - Build and Train Model. (2 pt)
 - Create User Input Boxes (Movie Name and their Rating). (1 pt)
 - Match Input to Movie in Dataset. (1 pt)
 - Autocomplete Title Input. (1 pt)
 - Returns top 5 recommendations from model. (1 pt)
 - Story 1: Deploy app via Flask (AWS). (4 pts)
- After completion of these stories, most of the other stories involve tuning the model and improving the app.