

ANIME SAGE

A Recommendation System For
Streaming Platforms

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BUISNESS PROBLEM

Overwhelming Anime Choices



- Over 17,000 Anime choices to sift through
- Anime is experiencing a **surge in global popularity**.
- The goal of Anime Sage is to **help streaming platforms recommend content** that aligns with unique user preferences.

01 - Overview

02 - Data

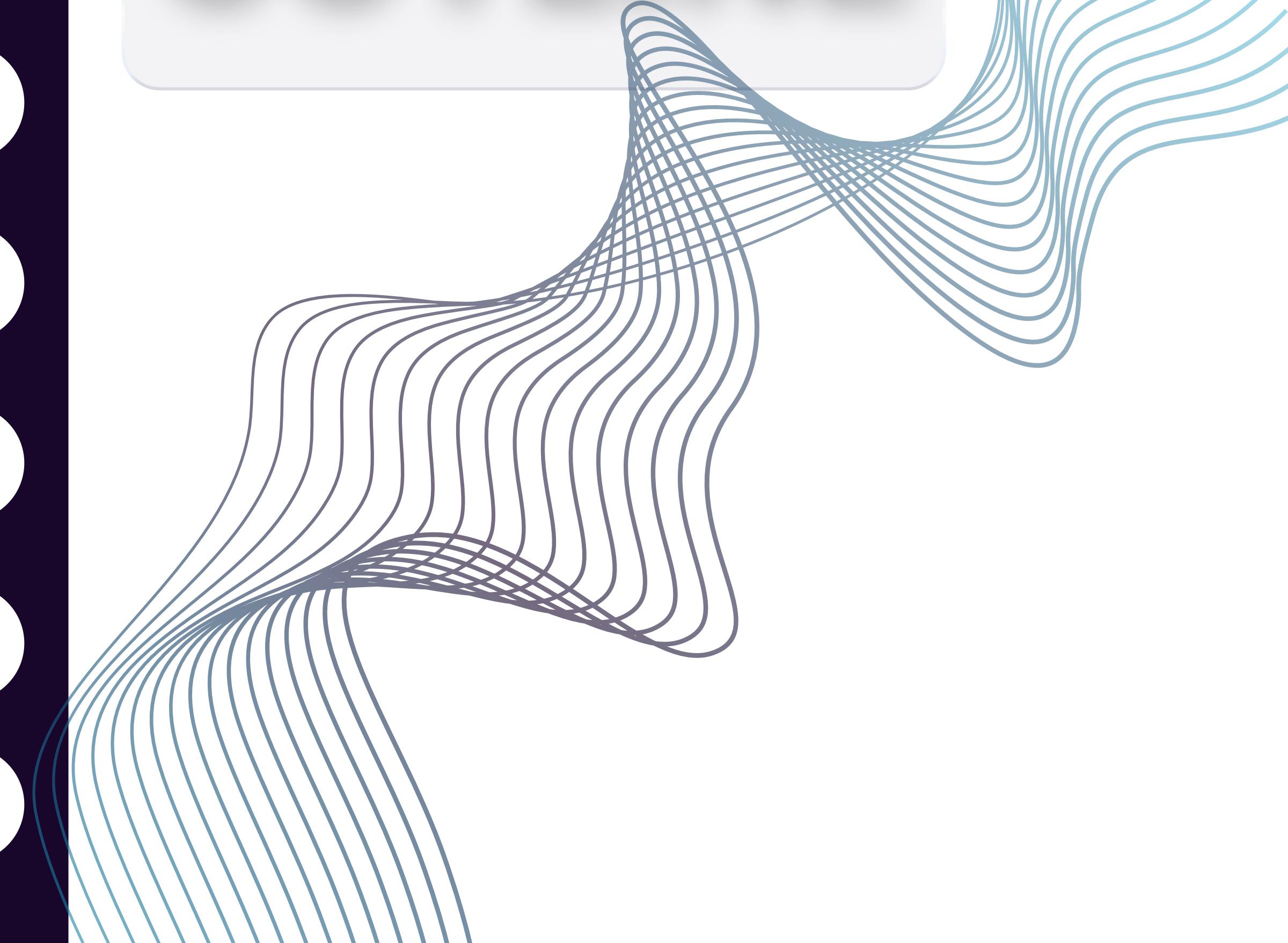
03 - Modeling & Results

04 - Results

05 - Deployment

05 - Conclusion

OUTLINE



OVERVIEW



DATA- My Anime List

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0	1	1	1	0	0	1	0	1	1	1	0	1	1	1	1	1	1	1	0	1	0	1	1

DATA

MyAnimeList.net

Anime Data Set

8 Million Entries

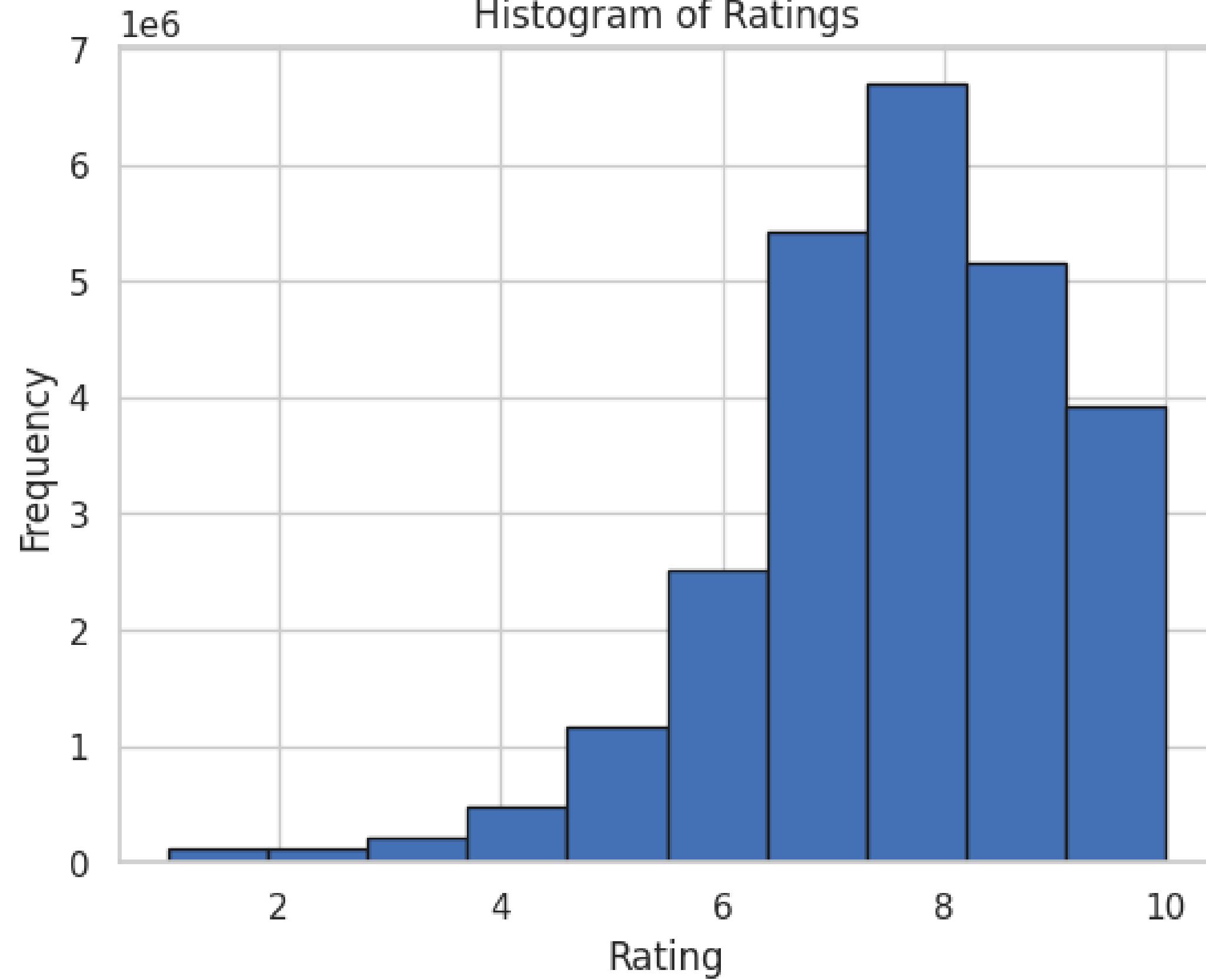
Anime Names, Genre, Type,
Popularity, Studio, and User
Ratings

Over 8 Million entries used in
training the model

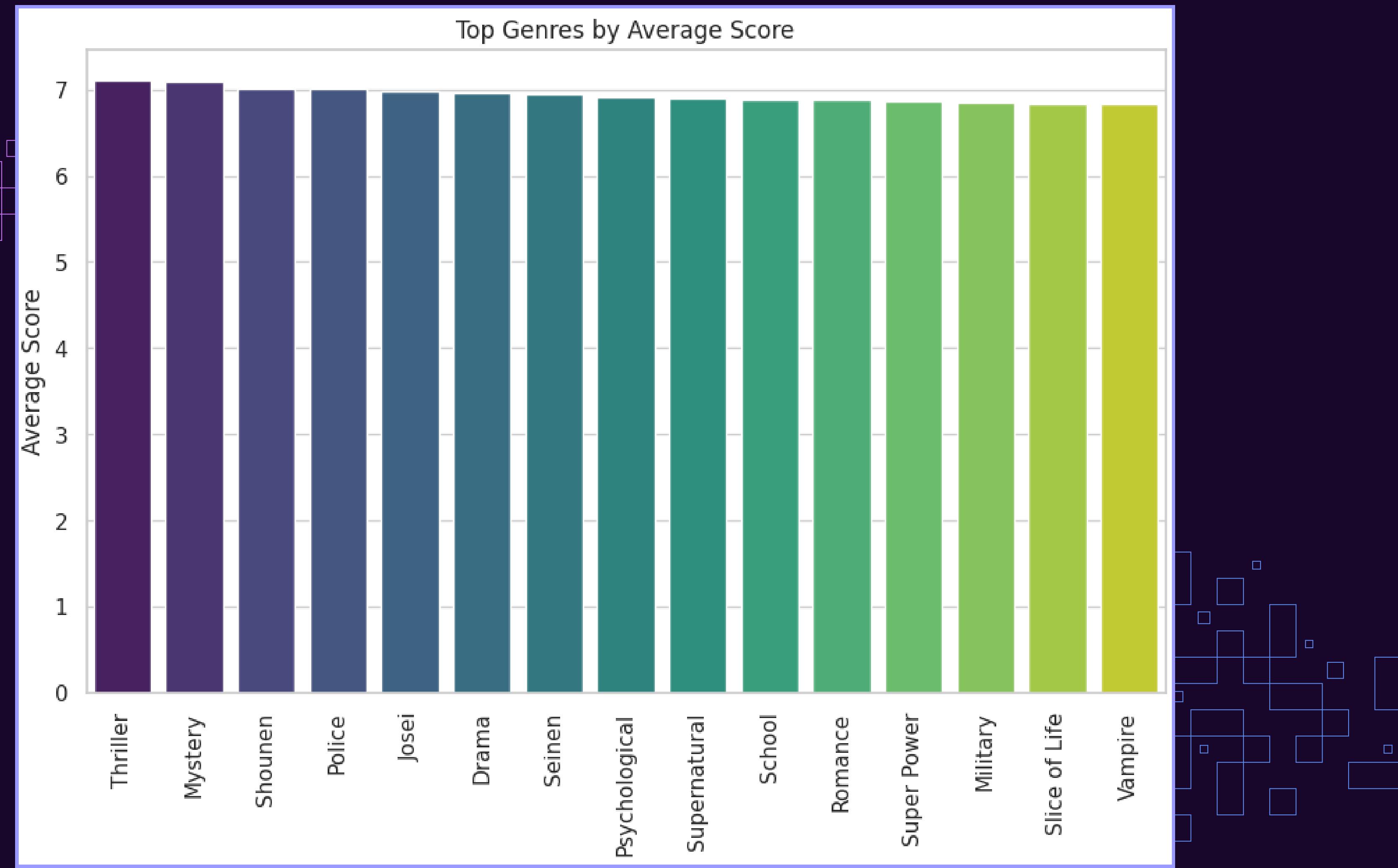
Ratings

The average rating for
an anime was 7.5/10.

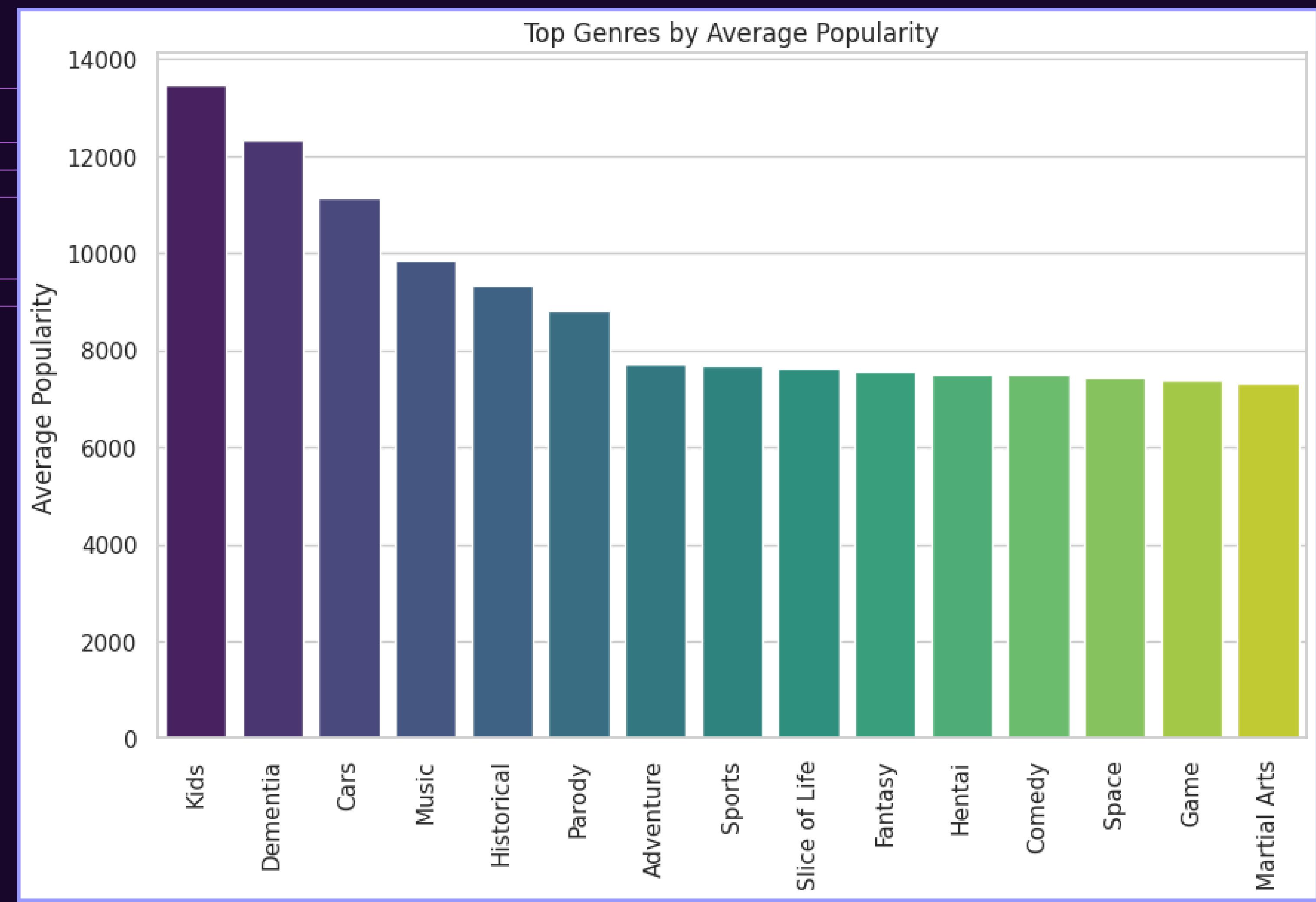
Histogram of Ratings



Top Genres by Average Score



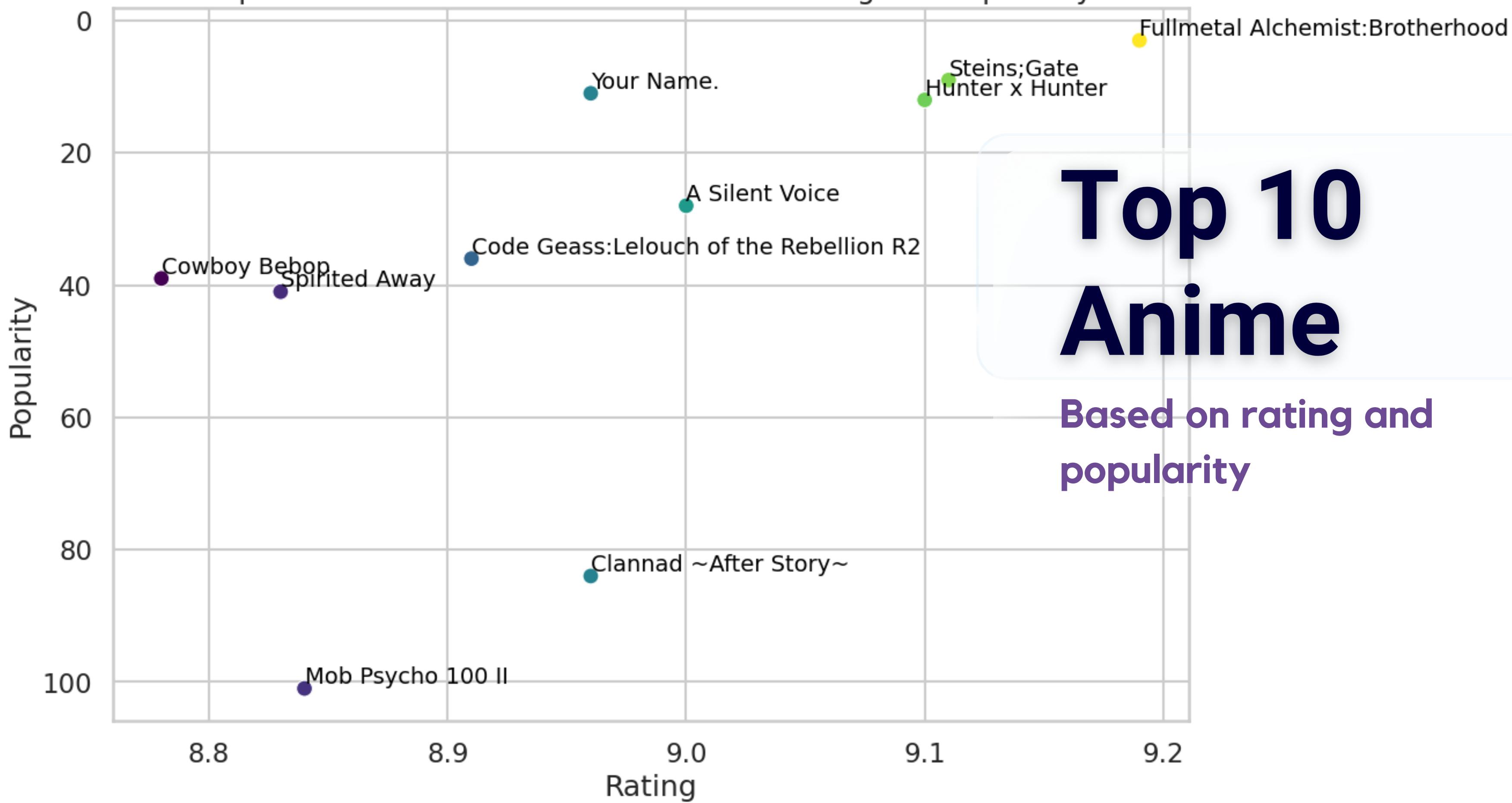
Top Genres by Average Popularity



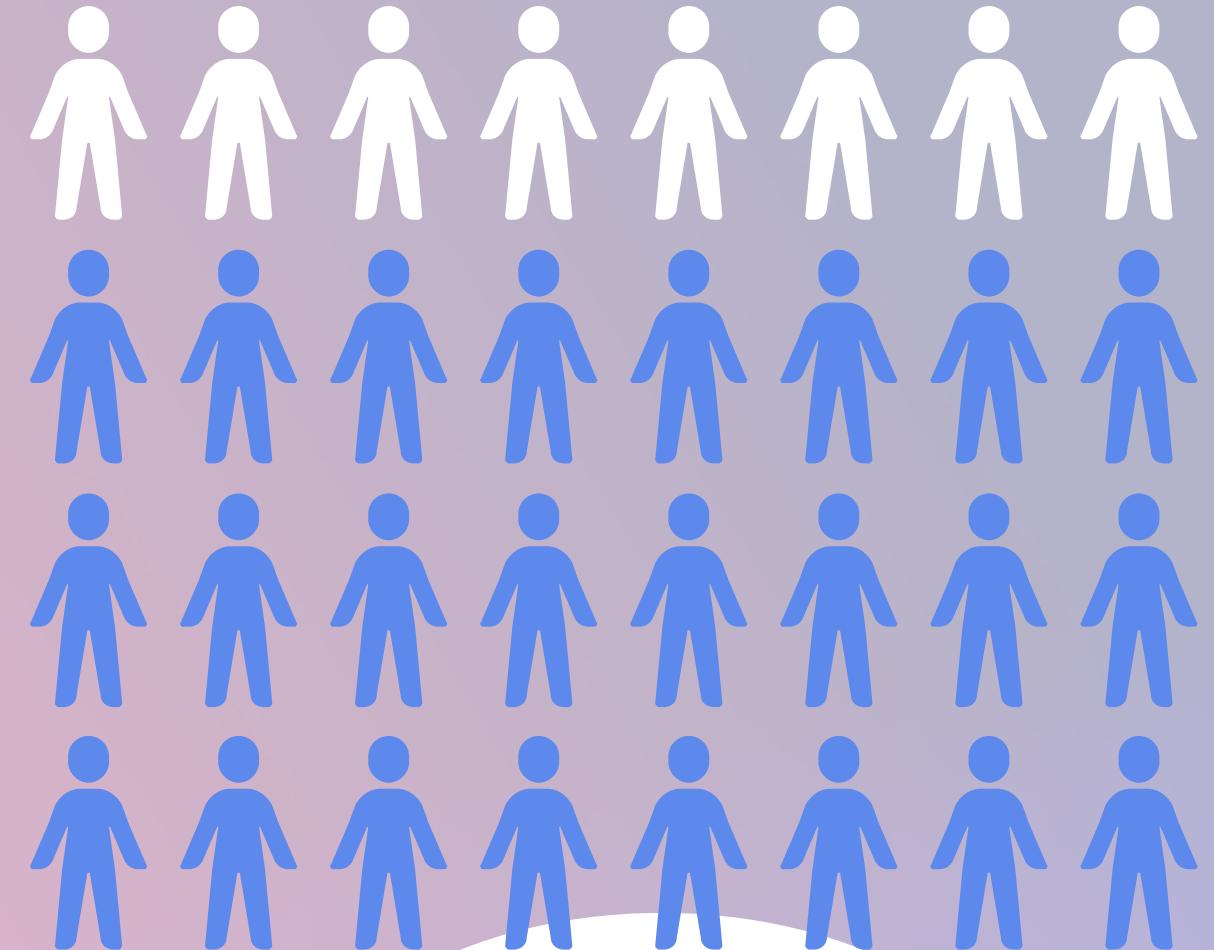
Top 10 Anime

Based on rating and
popularity

Top 10 Recommended Anime based on Rating and Popularity



MODELING

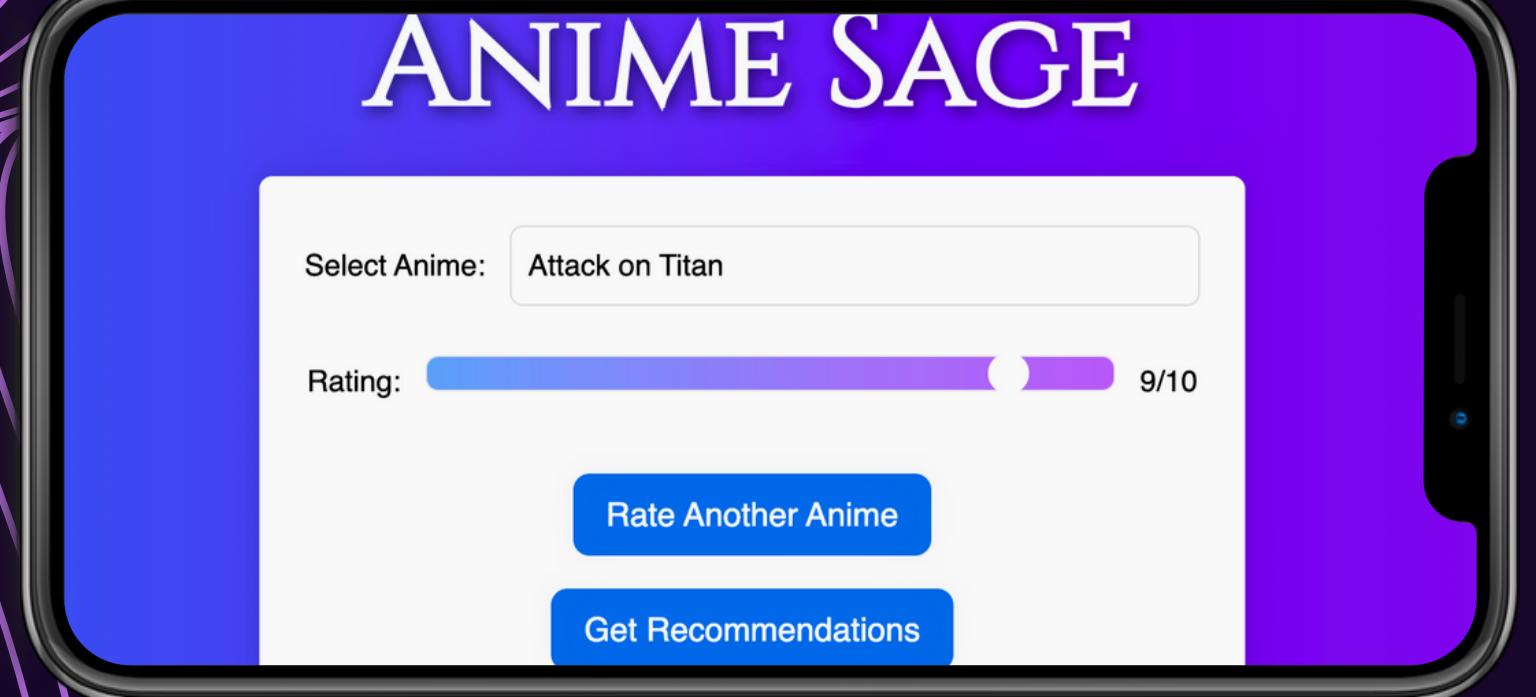


RMSE: 1.2
rating scale (1-10)

- **Method - SVD Algorithm:**
- **How it Works:**
 - Finds commonalities and patterns in the data.
 - Uses previous ratings and the ratings of similar users to make predictions.

ANIMESAGE

A Recommendation System



Results

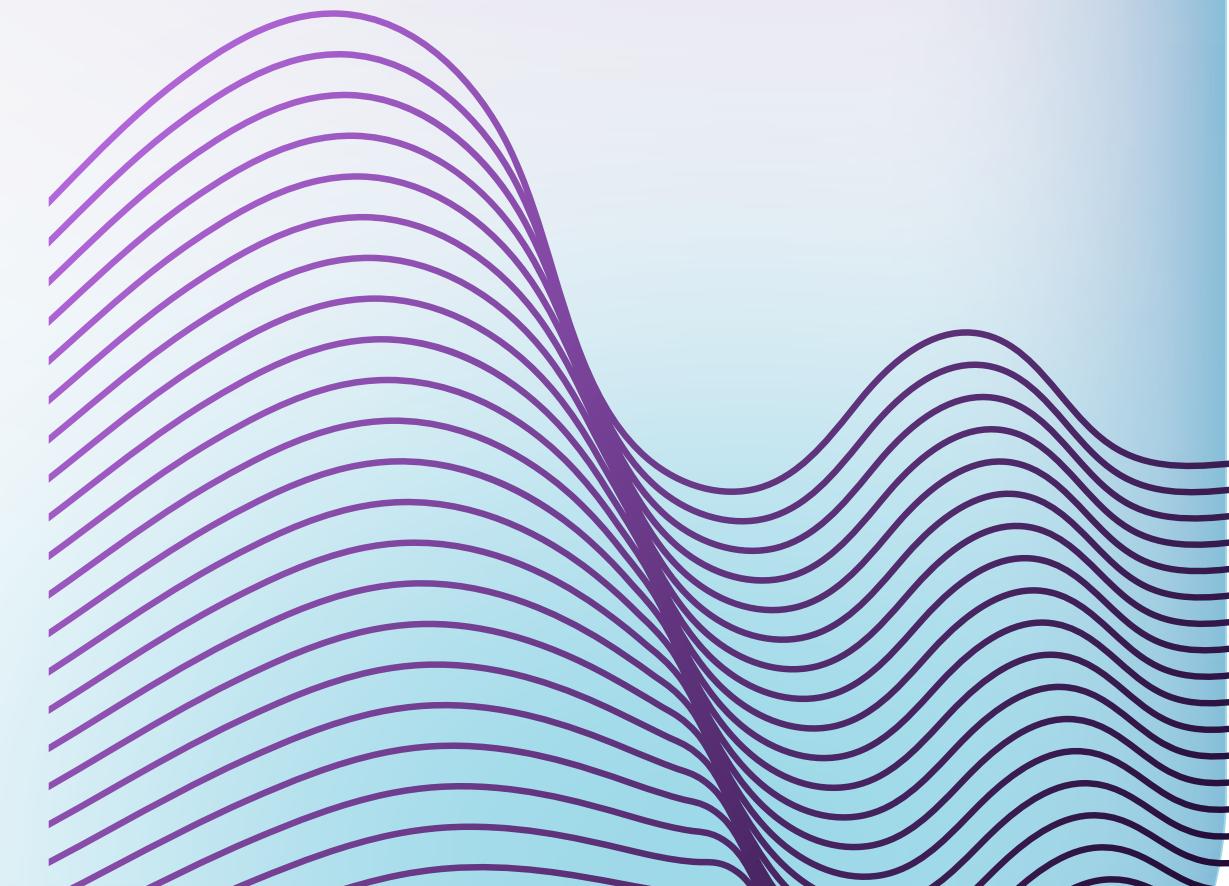
- **SVD Model Performance:**
 - Good predictive accuracy
- **Application:**
 - Enables users to rate and receive anime recommendations
 - Facilitates dynamic and interactive anime exploration
- **Limitations:**
 - Challenges in recommending for new users/items

Conclusions

- **Recommending Anime on the Streaming Platform:**
 - Use highly rated and highly popular anime filter to make solid general recommendations to new users.
 - Transition to SVD model suggestions as soon as users engage.
- **Interactive User Engagement:**
 - Integrate the interactive application into the main interface.
 - Use user interactions with AnimeSage to generate tailored recommendations for users.

Next Steps

- Combine collaborative and content-based filtering
- Utilize anime attributes for recommendations
- Refine and enhance model predictions



Thank you

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