

Anime Rank Prediction

On Myanimelist.net



One Piece



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SCORE Ranked #70 Popularity #29 Members 1,656,548
8.59
927,436 user Fall 1999 | TV | Toei Animation

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Synopsis

Gol D. Roger was known as the "Pirate King," the strongest and most infamous being to have sailed the Grand Line. The capture and execution of Roger by the World Government brought change throughout the world. His last words before his death revealed the existence of the greatest treasure in the world, One Piece. It was this revelation that brought about the Grand Pirates, men who dreamed of finding One Piece—which promises an unlimited amount of fame—and quite possibly the pinnacle of glory and the title of the Pirate King.

Enter Monkey D. Luffy, a 17-year-old boy who defies your standard definition of a pirate. Rather than the popular persona of a wicked, hardened, toothless pirate ransacking villages for fun, Luffy's reason for being a pirate is one of pure wonder: the thought of an exciting adventure leads him to intriguing people and ultimately, the promised treasure. Following in the foot steps of his childhood hero, Luffy and his crew travel across the Grand Line, experiencing crazy adventures, unveiling dark mysteries and battling strong enemies, all in order to reach the coveted of all fortunes—One Piece.

[Written by MAL Rewrite]

Background

Several anime-original arcs have been adapted into light novels, and the series has inspired video games as of 2021.

Episode Videos

More

Related AnimeAdaptation: [One Piece](#), [One Piece: Loguetown-hen](#)

Side story: [One Piece Movie 1](#), [One Piece Movie 2: Nejimaki-jima no Daibouken](#), [One Piece Movie 3: Chinjjuu-jima no Chopper Oukoku](#), [One Piece Movie 4: Ichi no Bouken](#), [One Piece Movie 5: Norowareta Seiken](#), [One Piece Movie 6: Omatsuri Danshaku to Himitsu no Shima](#), [One Piece Movie 7: Karakuri no Mecha Kyohei](#), [One Piece: Taose! Kaizoku Ganzack](#), [One Piece: Umizaru no Daibouken-hen](#), [One Piece: Oounabara ni Hirake! Dekkai Dekkai Chichi no Yume!](#), [One Piece: Mamore! Saigo no Dai Butai](#), [One Piece: Nenmatsu Tokubetsu Kikaku! Mugiwara no Luffy Oyabun Torimonochō](#), [One Piece: Japan no Dance Carnival](#), [One Piece: Xymo no Sacred Owl](#), [One Piece: Theatrical Edition](#)

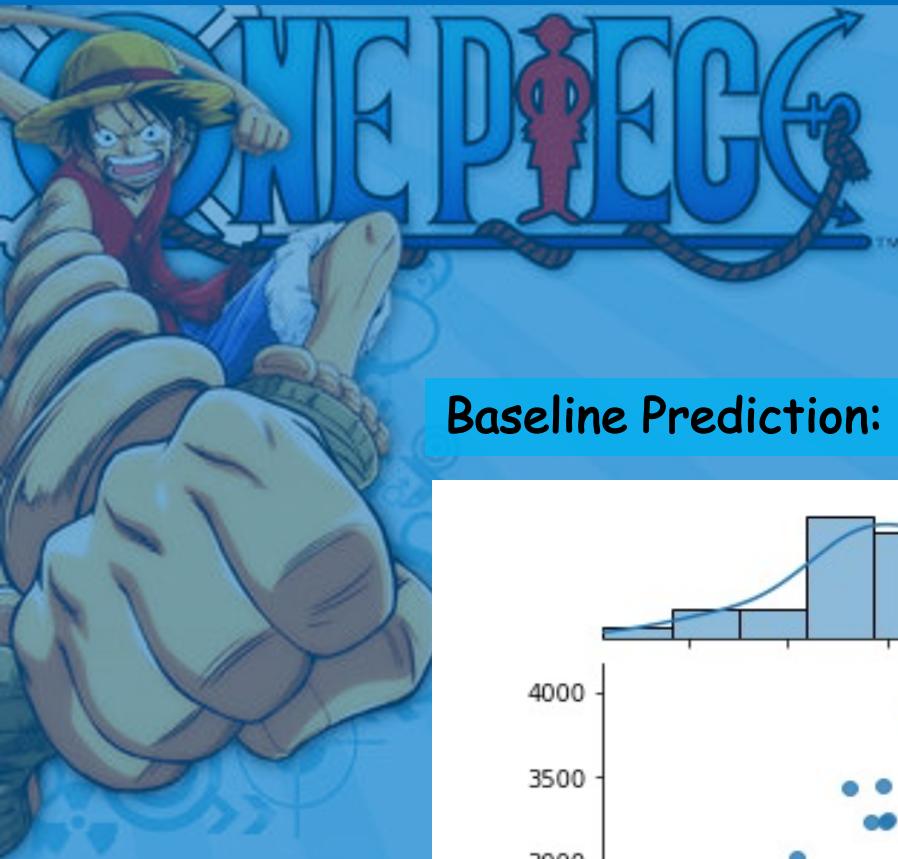
INTRODUCTION

Target:**Rank****Features:**

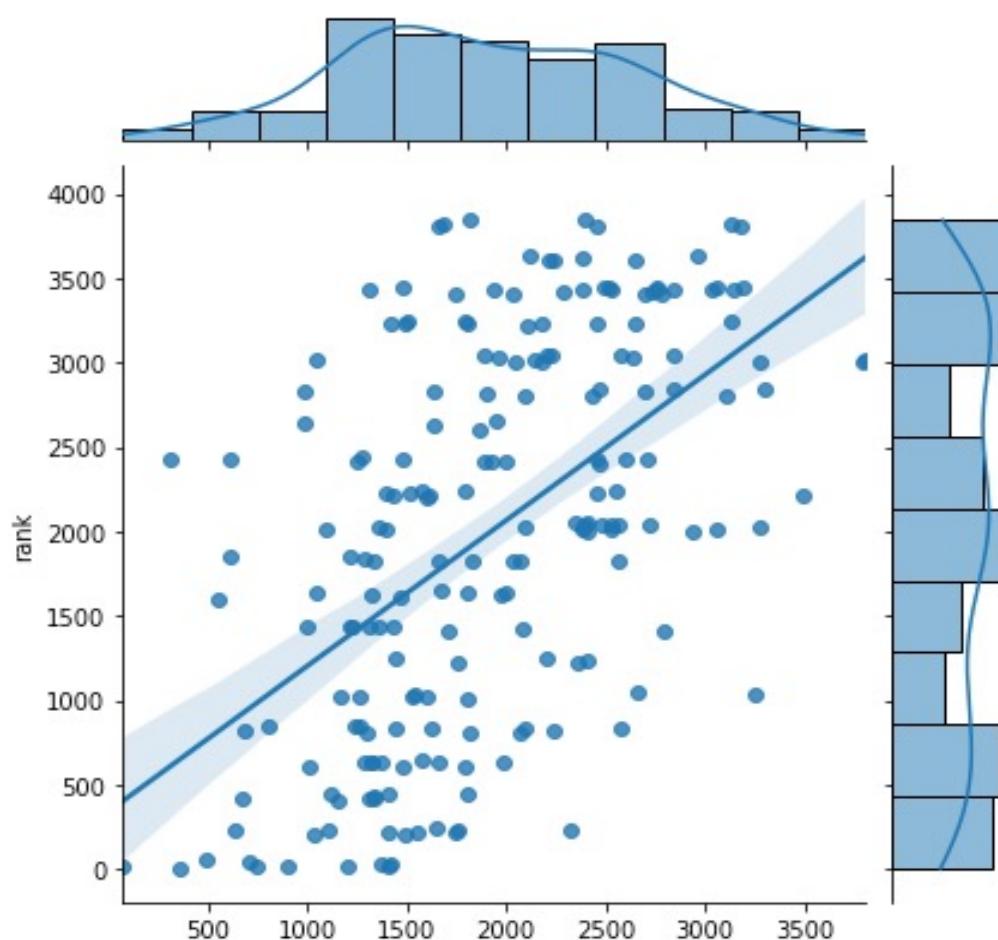
Type | Episodes | Members |
Favorites | Genre | Studio
| Rating | Demographic |
Theme | Popularity | Source |
Rank



- look, I just want noodles.



Baseline Prediction:



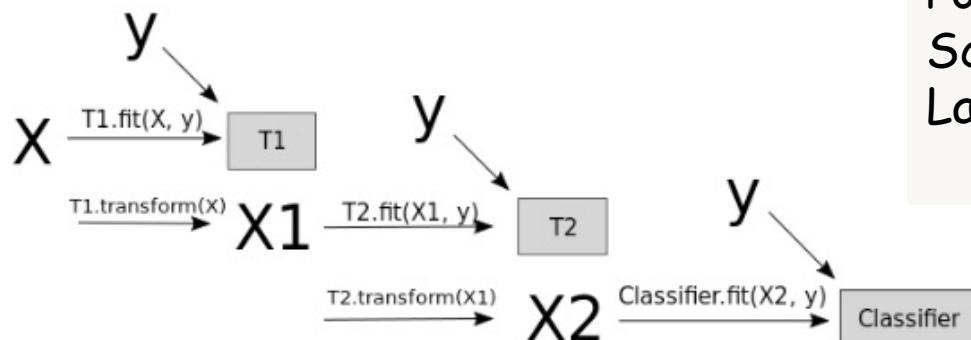
| | |
|--------------------------|--------------|
| Initial dataset | 219 Features |
| Post Feature engineering | 70 Features |
| K-Best Selection | 50 Features |

Train R2: 0.43
Val R2: 0.28
MAE: 815.64

```
pipe = make_pipeline(T1(), T2(), Classifier())
```



```
pipe.fit(X, y)
```



Polynomial Degree: 2
Scaler: Standard Scaler
Lasso Alpha: 50

```
pipe.predict(X')
```

$X' \xrightarrow{T1.transform(X')} X'1 \xrightarrow{T2.transform(X'1)} X'2 \xrightarrow{Classifier.predict(X'2)} y'$





Pipe Prediction:

Pipeline

Train R2: **0.55**

Validation R2: **0.45**

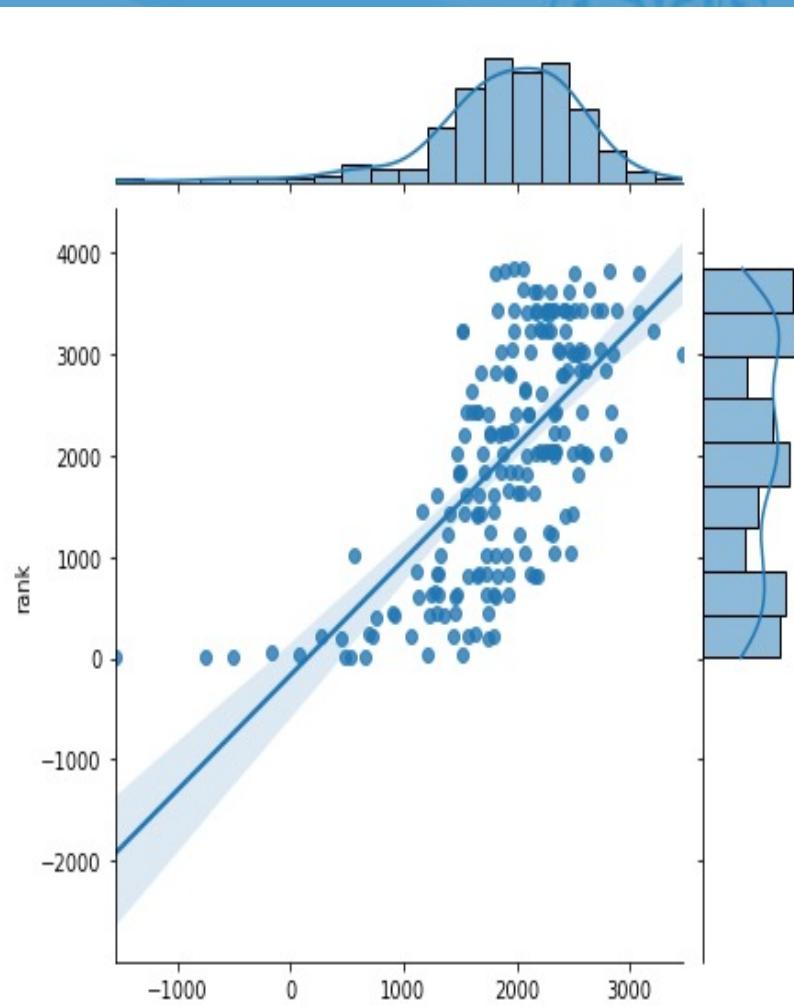
MAE: **659.40**

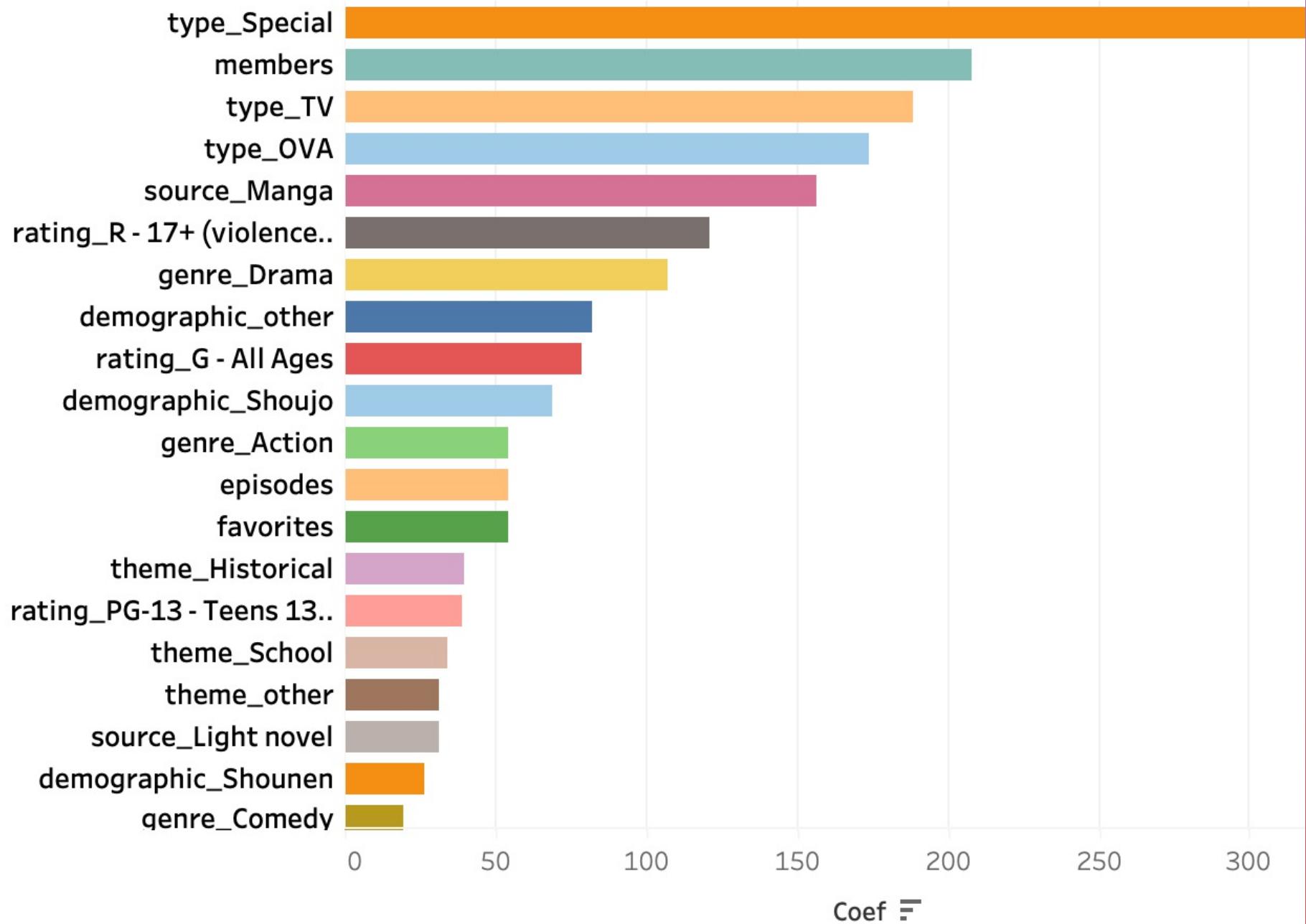
Baseline

Train R2: **0.43**

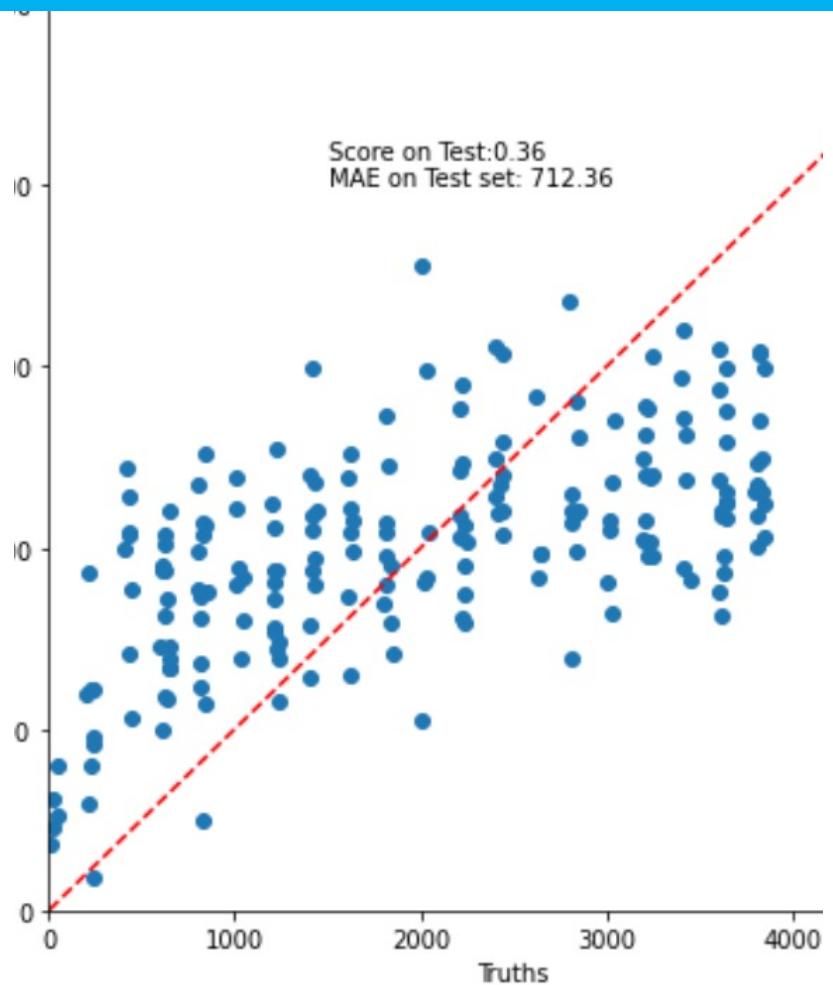
Validation R2: **0.28**

MAE: **815.64**

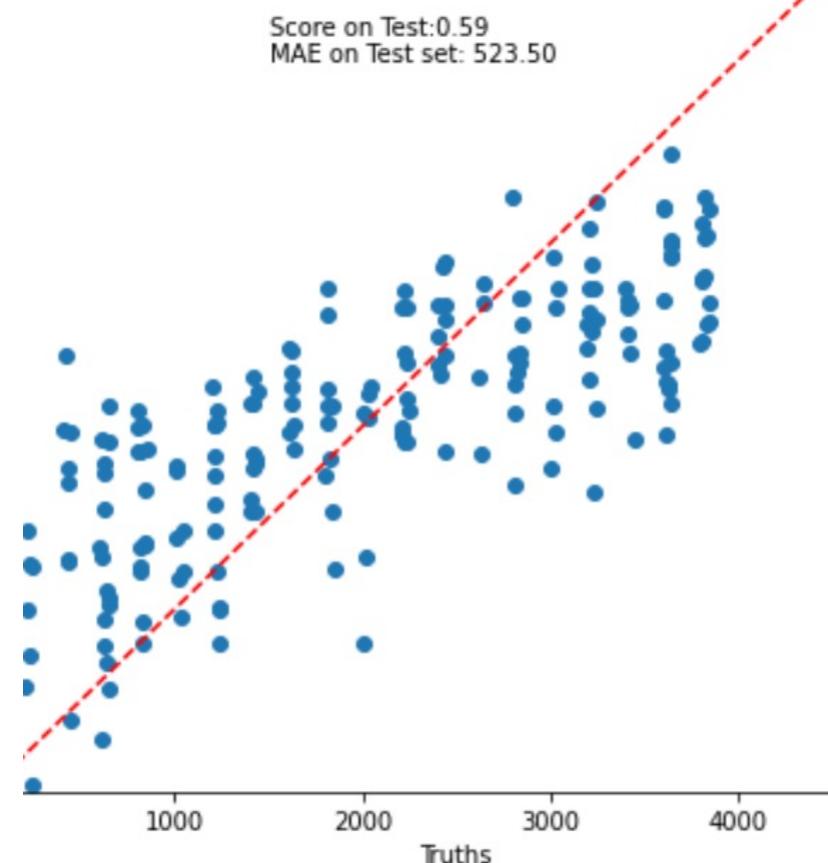




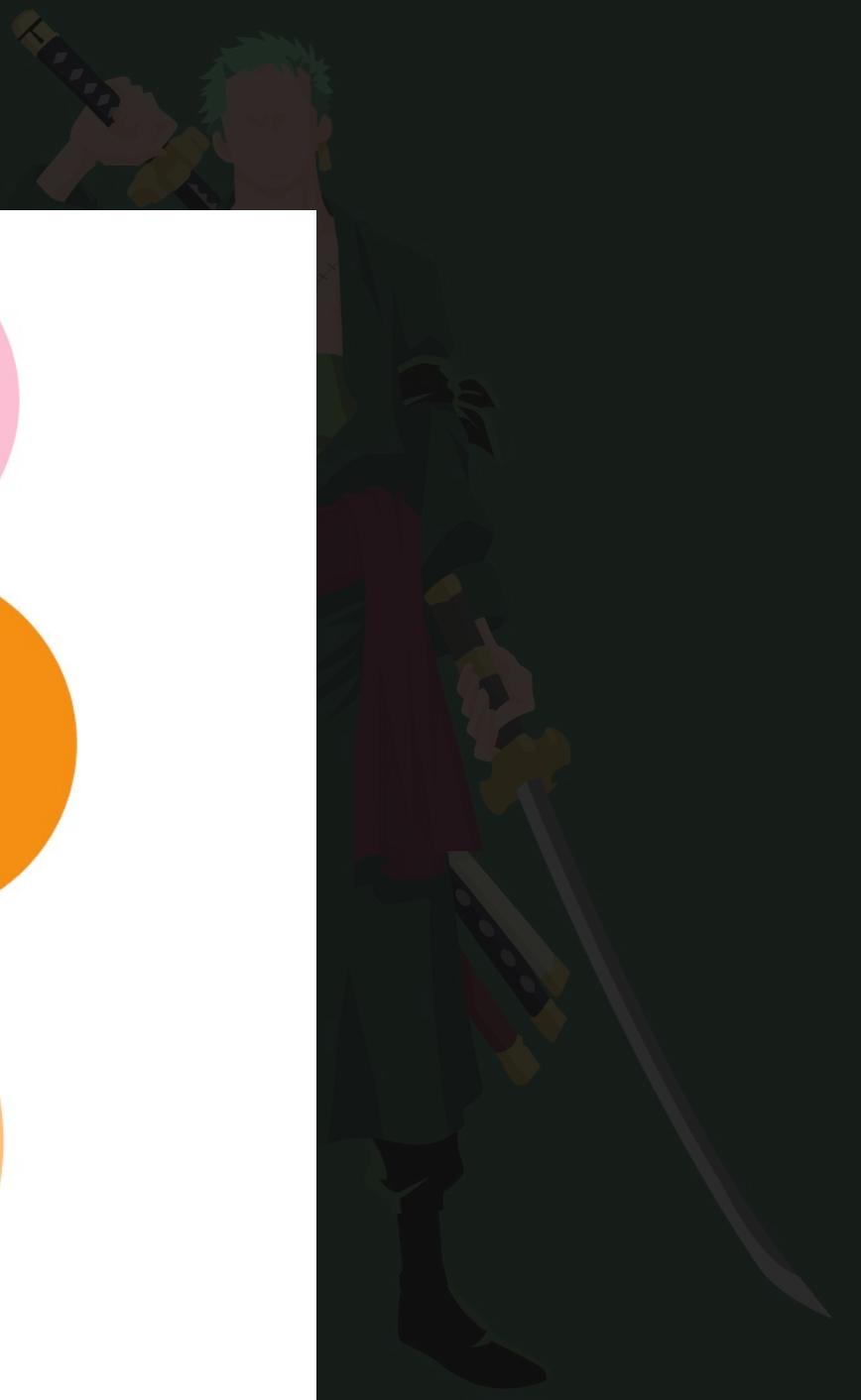
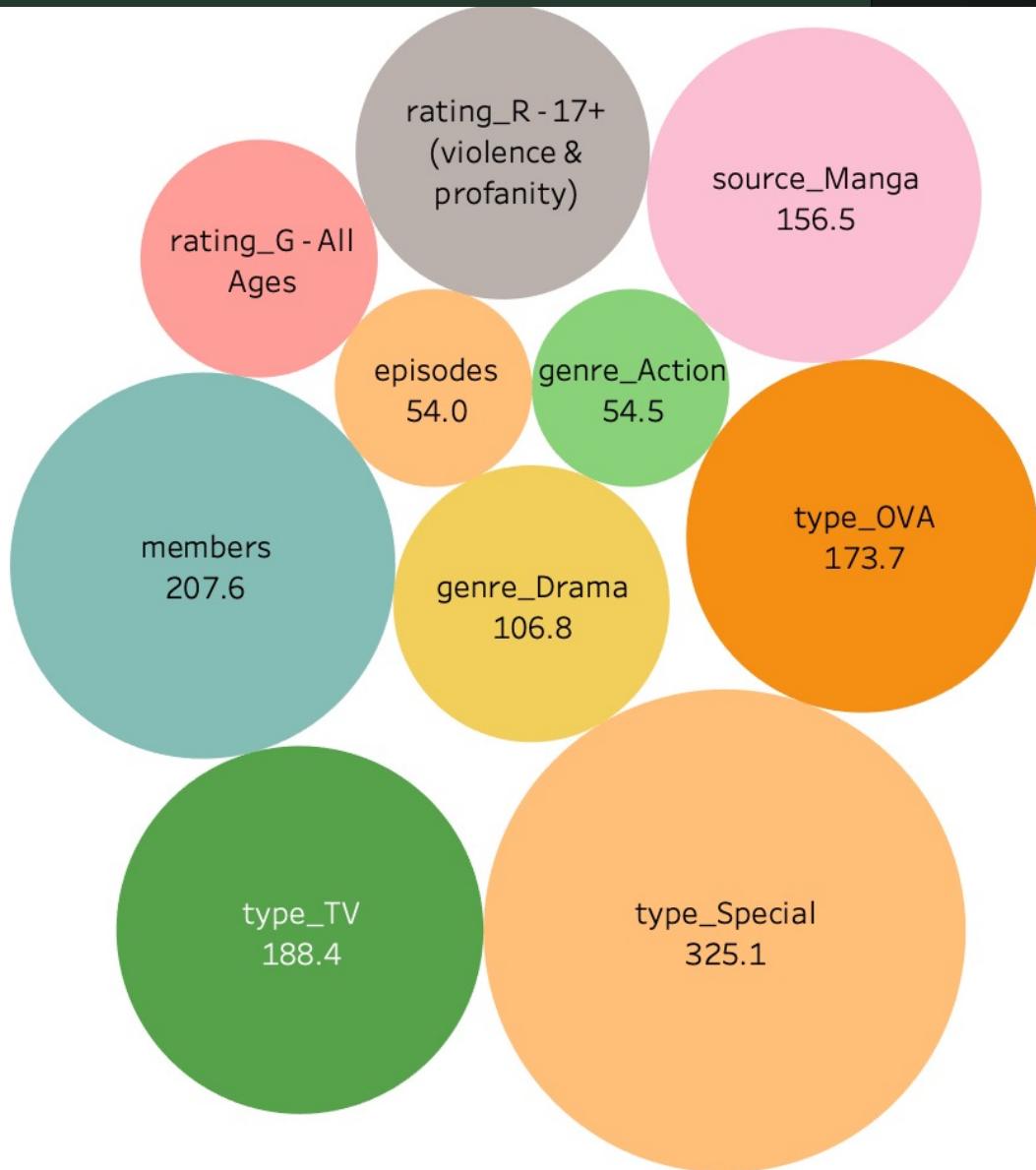
Pipe.predict(X_test)



Random Forrest classifier to compute feature importance, pipe.predict()



Key Features:



Prediction example:

| Title | rank | Predicted rank | Title |
|-------------------------|------|----------------|--------------------------------------|
| Bleach | 832 | 811 | Giant Robo the Animation |
| Musashi no Ken | 3242 | 3232 | Karneval |
| Trinity Seven | 2046 | 2029 | Meikyuu Black Company |
| Mahou Sensei Negima! | 1825 | 1824 | Love Stage!! Chotto ja Nakutte |

WANTED



Future work

- Collect more features and data points.
- Understand and implement interactions that could enhance model performance.
- Investigate and implement a more fitting model .



Thank
You!
Arigatou!

BF-37

ABF!