

Anime Rank Prediction

On Myanimelist.net





Baseline Prediction:

Initial
dataset

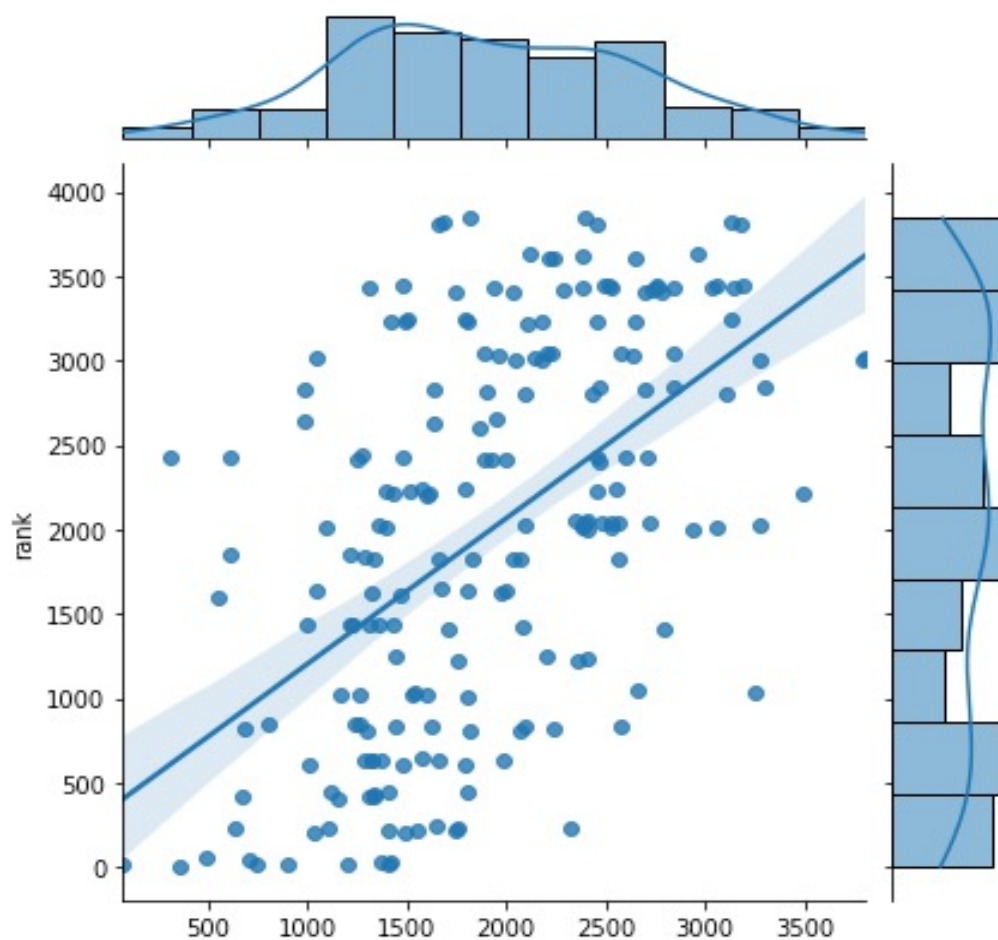
219 Features

Post Feature
engineering

70 Features

K-Best
Selection

50 Features



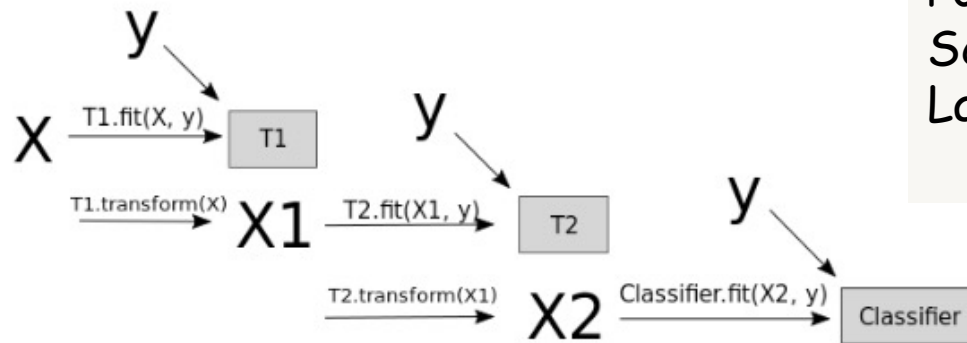
Train R2: 0.43
Val R2: 0.28
MAE: 815.64




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



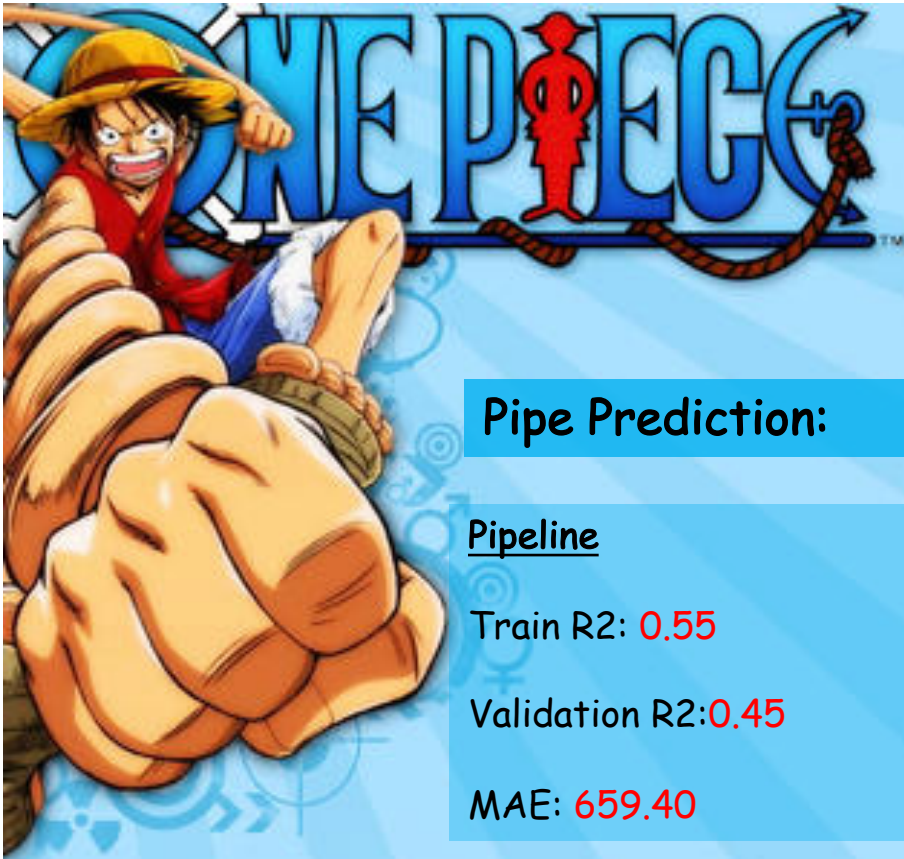
```
pipe.fit(X, y)
```



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

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





Pipe Prediction:

Pipeline

Train R2: 0.55

Validation R2: 0.45

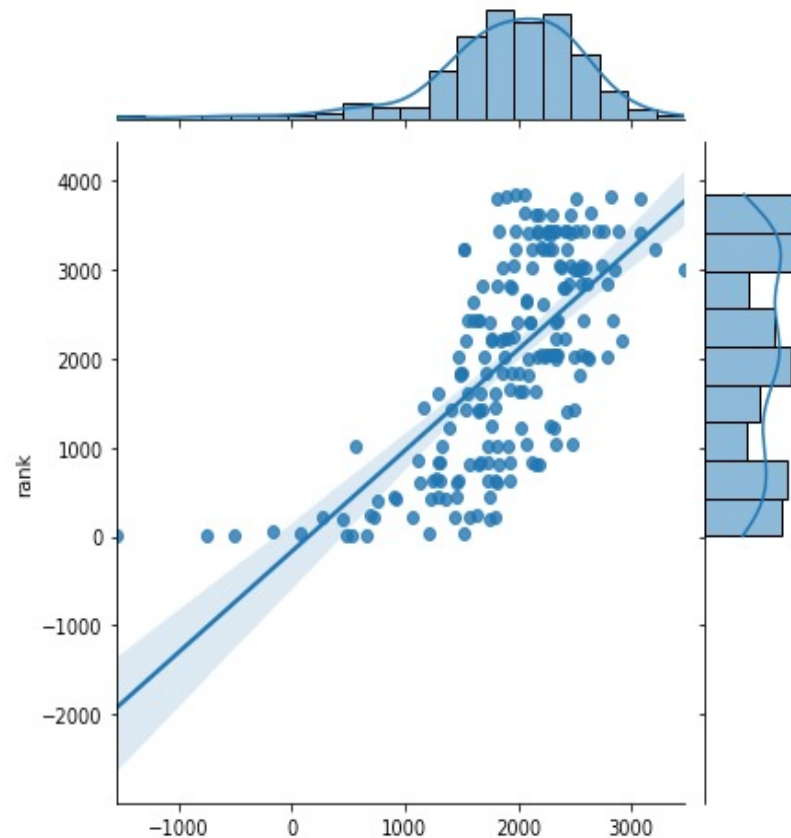
MAE: 659.40

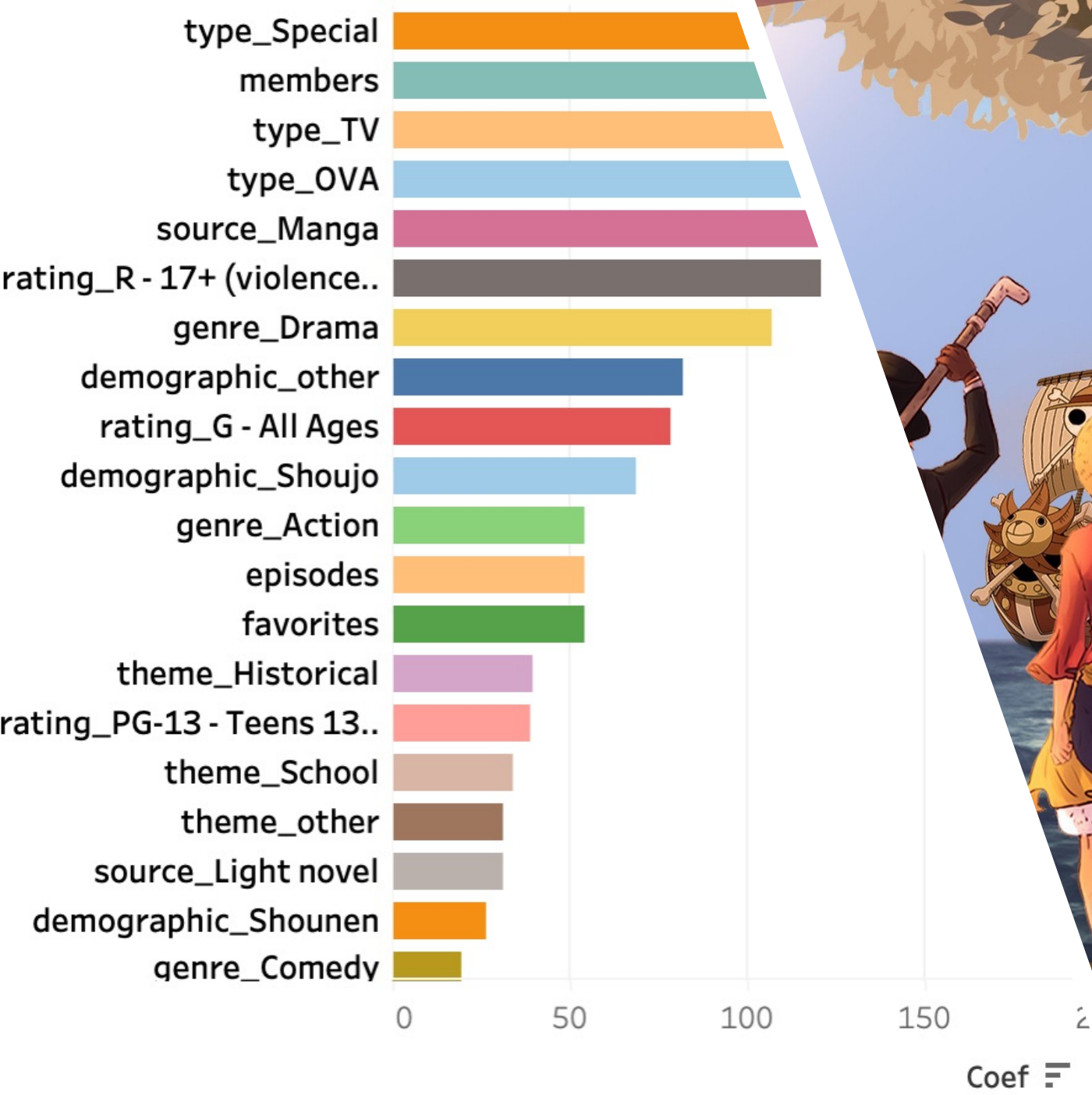
Baseline

Train R2: 0.43

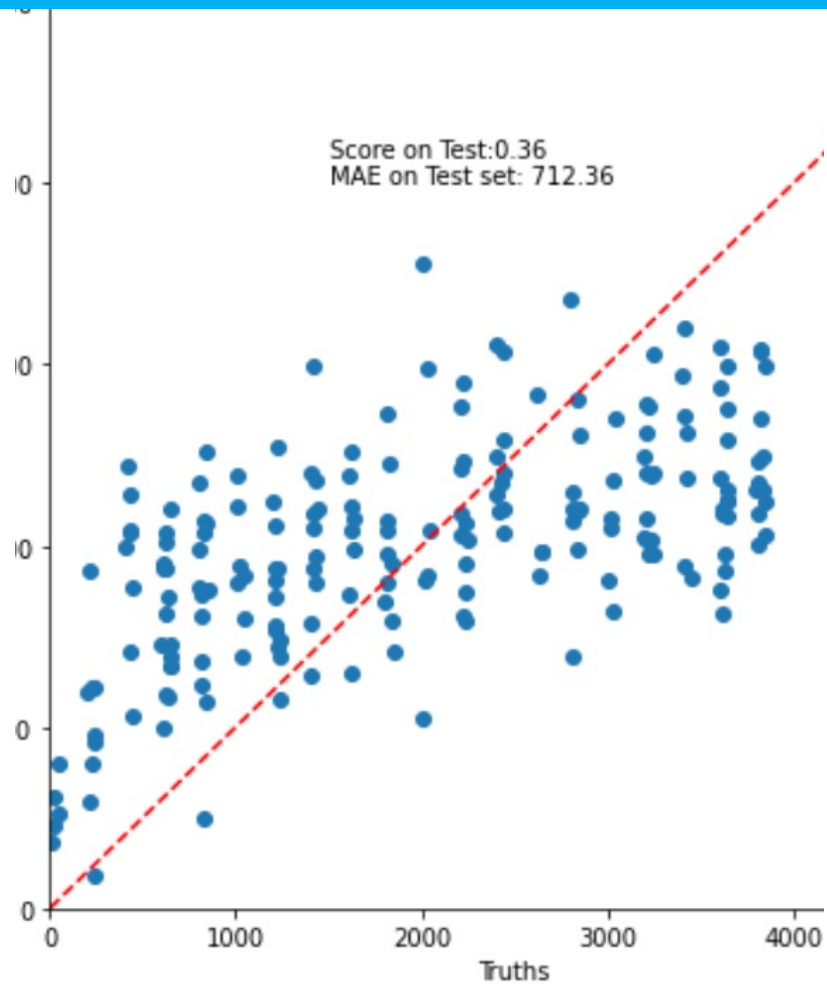
Validation R2: 0.28

MAE: 815.64

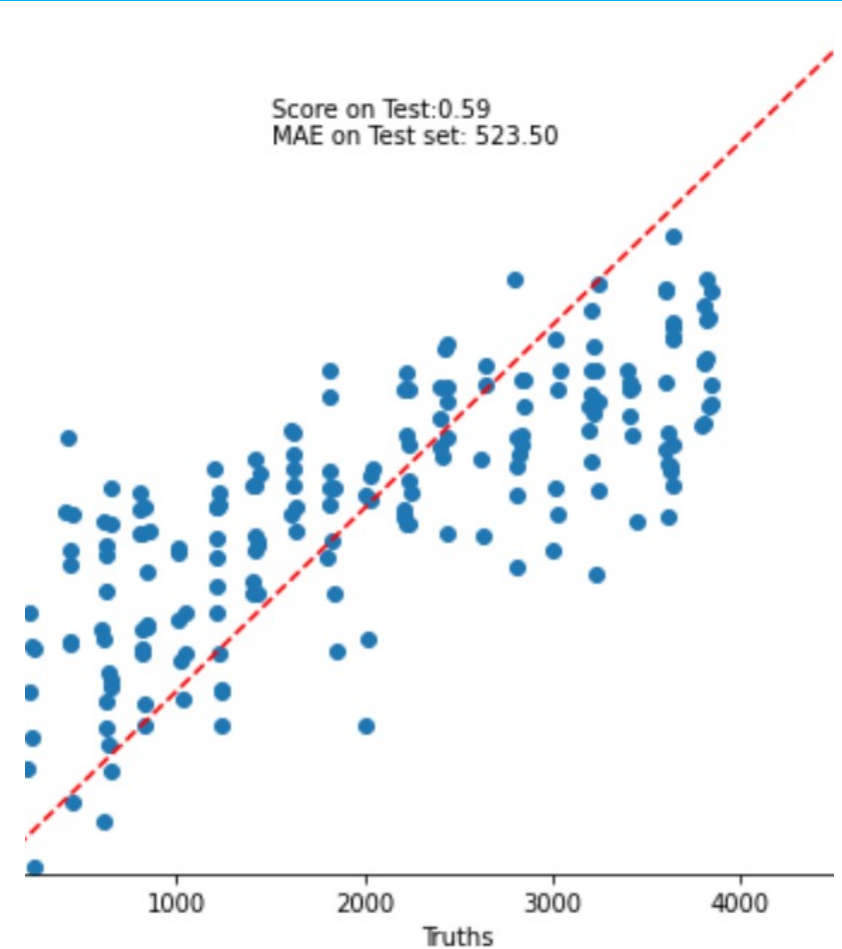




`Pipe.predict(X_test)`

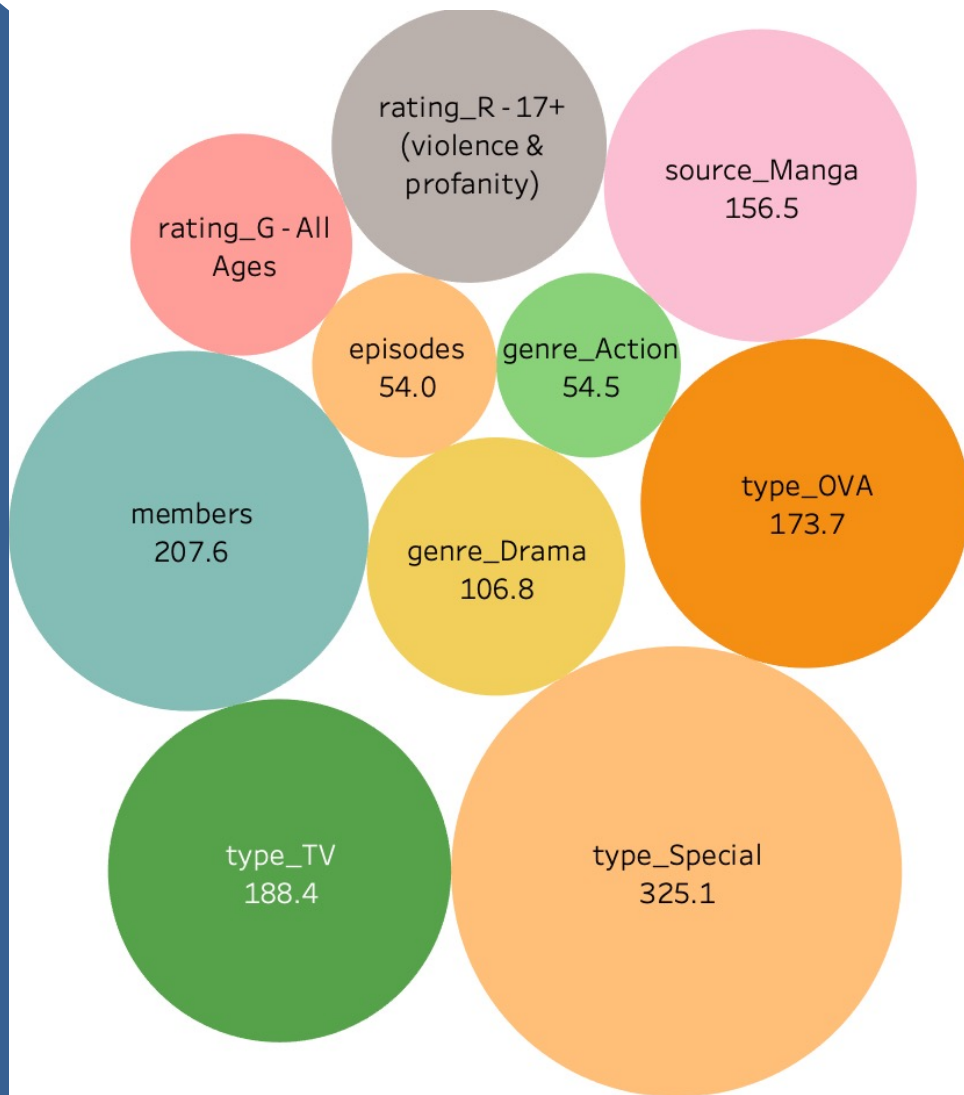


Random Forrest classifier to compute feature importance, `pipe.predict()`

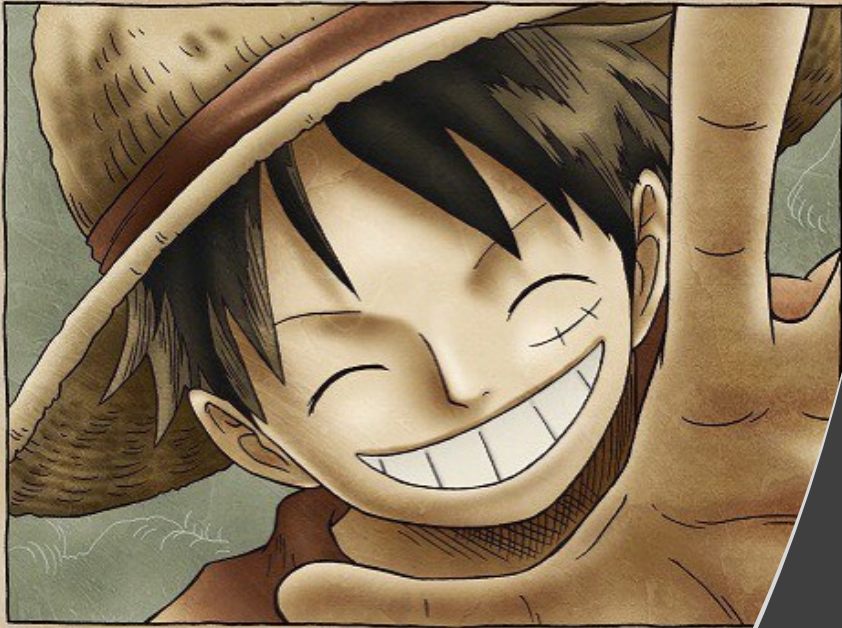




Key Features:



WANTED



DEAD OR ALIVE
MONKEY-D-LUFFY

฿1,500,000

KONO SAKUHIN WA FICTION DETHUNODE JITSUZAISURU JINBU
SONOTA NO SOSHIKI TO DOITSU NO MASHOU GA GEKICHI
SHITATOSHITEMO JITSUZAI NK MONOTOWA ISSAI MUNE

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!

