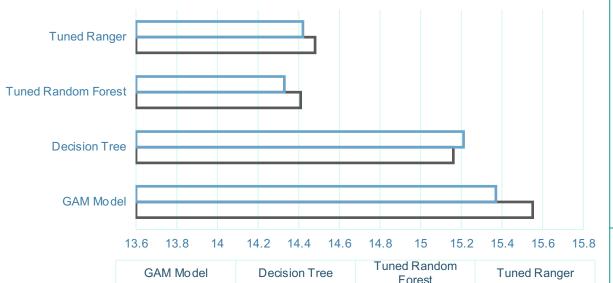
My thought is based on the Frequency of Genre Zhenvu Wang (zw2847) Methods

SPS



■RMSE in Kaggle

■RMSE in test



My best model: Random Forest Model with tuned mtry = 73, ntree =
1000 , and count frequency to create the top 700 genre types as dummy

15.21

15.16

14.33

14.41

14.42

14.48

variables. The **Kaggle RMSE** is **14.3359**. APANPS5200: Applied Analytics Frameworks and Methods I

15.37

15.55

dimensional data.

Feature selection:

Decision Tree

Random Forest with tuned

In this project, the key is dealing with genre variable, and the **random forest model** is a

powerful method for handling such high-

Model:

Improvement:

Conclusion:

Find a better way to select genre types, not all the genres contribute useful information to the model.

PAC Presentation - December 9, 2022

Extracting unique genres as a list Count the Frequency of the list Based on the list to create dummies

GAM model by adding smoothing term

Random Forest with Ranger tuned