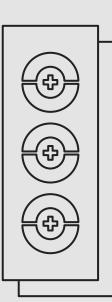
Now Featuring

Music genre classifier using Spotify audio features



Introduction

Motive:

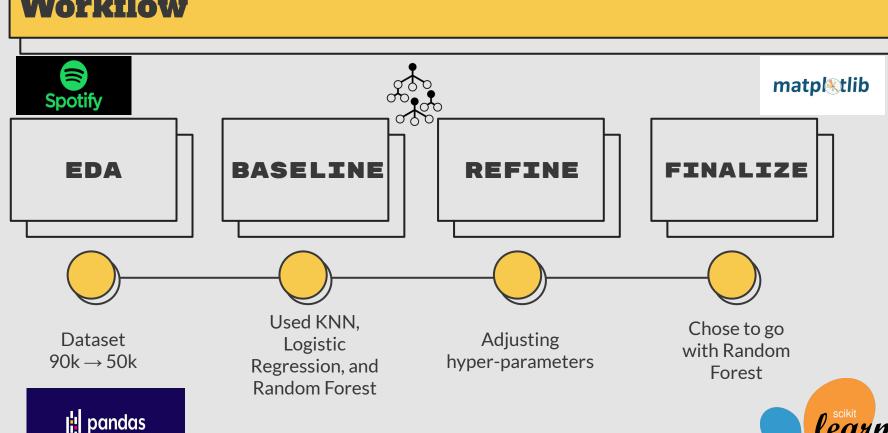
- Genres today are getting more and more ambiguous.
- Want to create a model that helps classify genres based on spotify audio features
- Hope to help new artists get a grasp on how
 Spotify may categorize the genre of their music

Objective/Goals

- Create a classification model that will take in audio feature metrics and predict the genre.
- Objective is to be able to accurately predict songs genres







Results

KNN

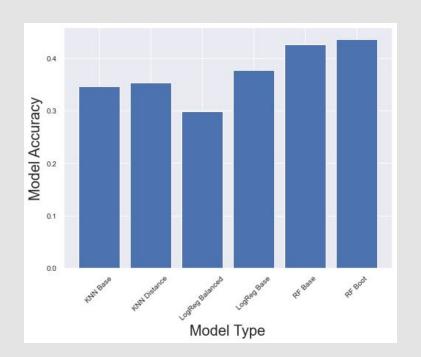
- Baseline accuracy = .347
- Distance Weighted = .354

Logistic Regression

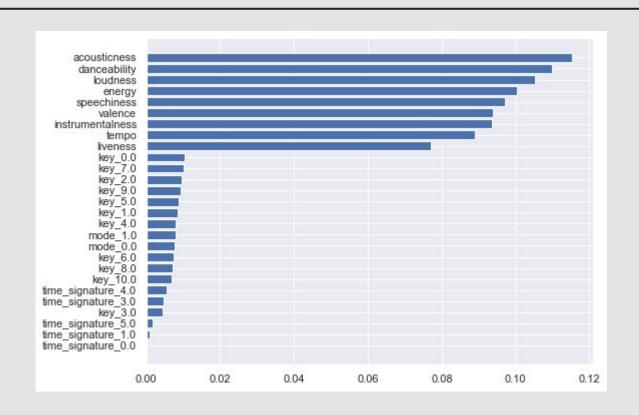
- Baseline accuracy = .377
- Balanced class weight = .299

Random Forest

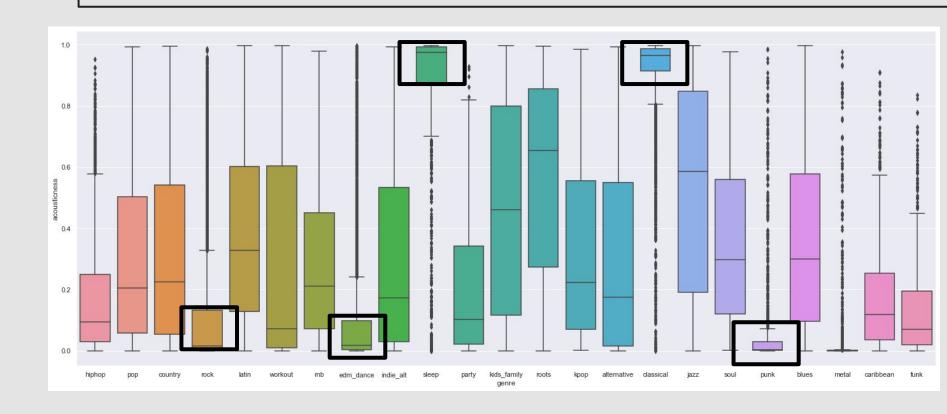
- Baseline accuracy = .427
- With Bootstrapping =.437



Feature Importance



Feature Importance(Acousticness)



Performance

Where is it good?

Hip-hop:

- DNA Kendrick Lamar correctly classified
- Acousticness = .023
- Danceability .638
- Energy = .523

Where is it bad?

Country:

• Had over 1,500 False positives



Conclusion

- This turned out to be a difficult problem to solve with a large number of classes
- Model faced the most confusion with with Country and Classical (False Positives)
- Did better with Hip-hop genre

