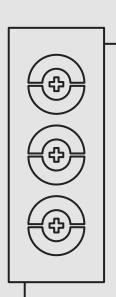
MUSIC GENRE CLASSIFICATION

Can machine do better?







TOOLS









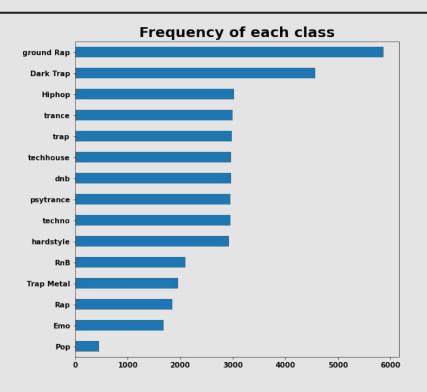


DATA

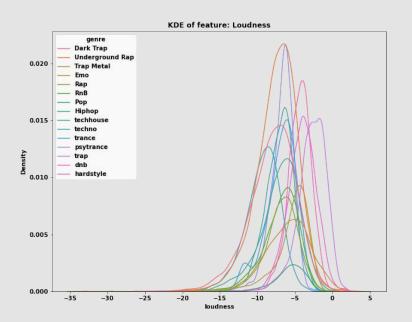
- Features
 - Danceability
 - Energy
 - Liveliness
 - o Etc.

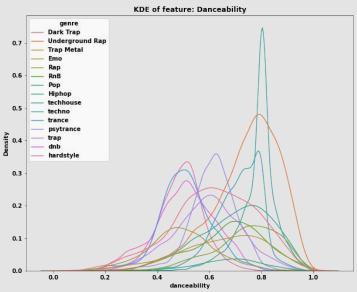
- 15 classes
 - Trance
 - Psytrance
 - o Rap
 - o etc.

EDA



EDA





MODEL PERFORMANCE



	KNN	RANDOM FOREST	XGBOOST	MLP
ACC	0.29	0.67	0.69	0.67
F1	0.24	0.61	0.68	0.66

FUTURE PLANS

- Collect more data (from same class, or different class)
- Classify using actual music data (.mp3, .wav, etc)
- Make an webapp
- Feature engineering
- Different methods of predicting
 - Predict the base genre then predict the sub genre.

APPENDIX

Feature importance calculated from xgboost

	feat_importance
tempo	0.235620
instrumentalness	0.153189
duration_ms	0.147276
danceability	0.098365
loudness	0.077594
energy	0.058657
speechiness	0.051928
valence	0.049582
acoustioness	0.043925
mode	0.029884
liveness	0.023133
time_signature	0.018503
key	0.012345