

Spotify Song Popularity Predictive Analytics

Spotify features a vast array of music for users to enjoy, and the music industry may be interested in determining whether a song will become a hit.

About

This project seeks to answer the question “What makes a supremely popular song?” Due to imbalanced classes, I leveraged SMOTE. Many models were utilized to attempt to answer this question. The models built include KNN, random forest classifier, logistic regression, and XGBoost.

Link

Dataset: <https://www.kaggle.com/datasets/paradisejoy/top-hits-spotify-from-20002019>

Setup

This Python coding project was constructed on Jupyter Notebook. Please import the following libraries:

- Matplotlib
- Numpy
- Pandas
- Seaborn
- SMOTE
- Sklearn
- Xgboost