Introduction

Problem Statement.

Given a group of songs, we can sort song features into playlists that best fit them. We hope to develop a method that can efficiently sort a large number of songs into playlists while maintaining high accuracy.

Methods

1. **SVM Parameters**
   - **RBF sigmoid**: 0.77
   - **Poly SVM**: 0.22
   - **Sigmoid SVM**: 0.48
   - **Perceptron**: 0.13
2. **Evaluation Metrics**
   - **Precision**: 0.48
   - **Recall**: 0.09
   - **F1-score**: 0.04
   - **Support**: 0.04
3. **Results**
   - **Train & Test Accuracy on various users using final model**
     - **Jacob**: 100% 78%
     - **Kevin**: 94% 78%
     - **Miz**: 62% 40%
     - **Daniel**: 93% 77%
     - **Kevin**: 94% 78%

Conclusion & Future Work

- We have developed a playlist curator based on user taste.
- Our method can efficiently sort a large number of songs into playlists while maintaining high accuracy.
- Future work includes expanding the dataset and testing our method on additional users.