**Project Title: Spotify Machine Learning**

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**Project Description/ Outline**

The team will analyze popular song data from Spotify to create and train a supervised learning model that will help predict the popularity of a song. We will then use Spark to query the data and create visualizations that explore trends across the song data.

**Questions to Answer**

* Analyze/ visualize trends across song characteristics that contribute to a song’s popularity
* Analyze the popularity of a song based on song ranking
* Use the model to predict a song’s popularity

**Datasets to be Used**

* <https://www.kaggle.com/datasets/sashankpillai/spotify-top-200-charts-20202021>
* <https://www.kaggle.com/datasets/brunoalarcon123/top-200-spotify-songs-dataset>
* Spotify Web API

**Rough Breakdown of Tasks**

* Research and dataset selection
* Data cleaning
* ETL
* Create, train, fit the model
* Optimize the model
* Data analysis
* Data visualization
* Presentation