Spotify Popularity Predictor

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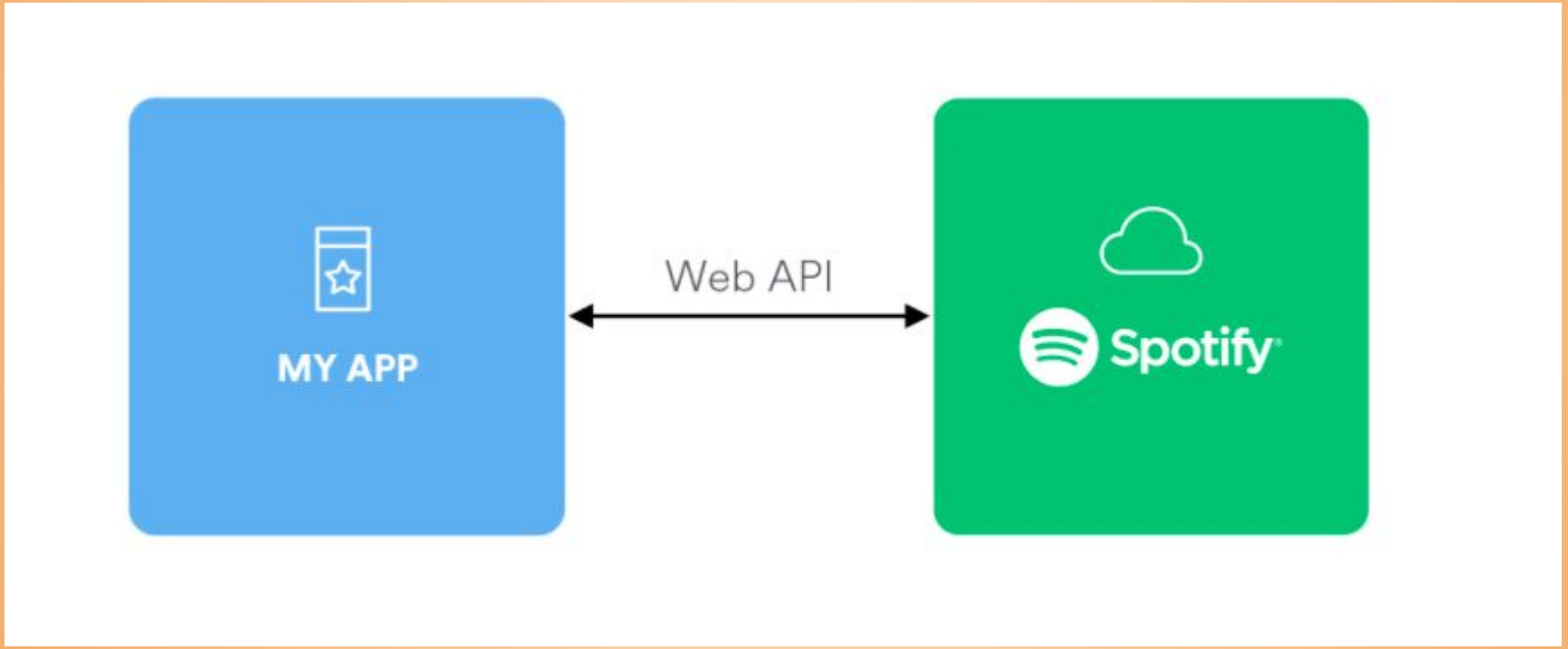
Motivation: A record label is looking for a tool that can be used to predict the popularity of a song.

Objective: Create a web app that allows the user to input attributes of a song.

Tools Used

Acquiring the Data



Processing the Data

Combining the two table

		Track	Popularity	Track_Number	Album_Name
0		YKWIM?	87	3	Bipolar
1		Streets	87	9	Hot Pink
2		Formula	89	2	Euphoria (Ori
3		All For Us - from the HBO …	87	1	All For Us (fro
4	es	Watermelon Sugar	90	2	Fine Line
5	aldi	Someone You Loved	88	4	Divinely Unin
6		Are You Bored Yet? (feat. …	83	4	Nothing Hapı
7		Sofia	83	7	Immunity
8		Still Don't Know My Name	86	12	Euphoria (Ori

Choosing a Model

LassoCV performed the best

Web App

https://share.streamlit.io/liammoran13/spotify_app/main/streamlit_code.py

Further Work

More NLP with names of songs and albums

Add audio analysis data

Create web app that takes a url as input