

# Esptifai

## Automatic Playlist Recommender

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GitHub Repository

## 1 Project statement

**Question:** Which song should we recommend based on a playlist and user or context information?

We can define playlist as a sequence of tracks (audio recordings). In this project we aim to study the playlist generation problem, that is, given a pool of tracks, a background knowledge about the user, and some metadata of songs and playlists, the goal is to create a sequence of tracks that satisfies some target as best as possible. The notebooks, scripts and work can be found in our repository.

## 2 The Datasets

In order to obtain user information, we generated a list of usernames in a networked way. We visited the Last.fm webpage of several artists and considered three random users in the top listenings from three different countries: Brazil, USA and United Kingdom. Using only these usernames, through the command `python generate_lastfm_users.py`, we get additional Last.fm usernames using the `user.getFriends` method. With some loops, we can get the network (or part of it). It's possible to have some bias, unknown yet.

### 2.1 Spotify Database

### 2.2 Last.fm Database

## 3 Gained Insights

## 4 Baseline Model