Predicting Acceptance Probabilities
from Trivial Features

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Abstract

We are planning to use the "The Million Playlist Dataset" from Spotify (). The dataset is downloadable under the following link (). You can find a sample of the datastructure below. We are aiming to answer questions about Spotify playlist, like e.g.: What is the average playlist length? What would the average playlist look like (what tracks would you find)? Which distribution fits best when looking at follower numbers of the playlists (hypothesis: la place distribution)? We mainly focus on plotting and analyzing the dataset but are also aiming to use logistic/linear regression (e.g. to find a "border" between popular and non-popular tracks). As mentioned we try to find fitting distribution for the data (e.g. follower numbers of playlists)

An example of data in the dataset:

```
1   {
2       "name": "musical",
3       "collaborative": "false",
4       "pid": 5,
5       "modified_at": 1493424000,
6       "num_albums": 7,
7       "num_tracks": 12,
8       "num_followers": 1,
9       "num_edits": 2,
10      "duration_ms": 2657366,
11      "num_artists": 6,
12      "tracks": [
13          {
14              "pos": 0,
15              "artist_name": "Degiheugi",
16              "track_uri": "spotify:track:7vqa3sDmtEaVJ2gcvxtRID",
17              "artist_uri": "spotify:artist:3V2paBXEoZIAhfZRJmo2jL",
18              "track_name": "Finalement",
19              "album_uri": "spotify:album:2KrRMJ9z7Xjoz1Az4O6UML",
20              "duration_ms": 166264,
21              "album_name": "Dancing Chords and Fireflies"
22          },
23          {
24              "pos": 1,
25              "artist_name": "Degiheugi",
26              "track_uri": "spotify:track:23EOmJivOZ88WJPUbIPjh6",
```

```
27              "artist_uri": "spotify:artist:3V2paBXEoZIAhfZRJmo2jL",
28              "track_name": "Betty",
29              "album_uri": "spotify:album:3lUSlvjUoHNA8IkNTqURqd",
30              "duration_ms": 235534,
31              "album_name": "Endless Smile"
32          },
33          {
34              "pos": 2,
35              "artist_name": "Degiheugi",
36              "track_uri": "spotify:track:1vaffTCJxkyqeJY7zF9a55",
37              "artist_uri": "spotify:artist:3V2paBXEoZIAhfZRJmo2jL",
38              "track_name": "Some Beat in My Head",
39              "album_uri": "spotify:album:2KrRMJ9z7Xjoz1Az4O6UML",
40              "duration_ms": 268050,
41              "album_name": "Dancing Chords and Fireflies"
42          },
43          // 8 tracks omitted
44          {
45              "pos": 11,
46              "artist_name": "Mo' Horizons",
47              "track_uri": "spotify:track:7iwx00eBzeSSSy6xfESyWN",
48              "artist_uri": "spotify:artist:3tuX54dqgS8LsGUvNzgrpP",
49              "track_name": "Fever 99\u00b0",
50              "album_uri": "spotify:album:2Fg1t2tyOSGWkVYHlFfXVf",
51              "duration_ms": 364320,
52              "album_name": "Come Touch The Sun"
53          }
54      ],
55
56  }
```