Music Recommender System

[w/Machine Learning]

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Things to implement:

* ML:
  + Merging Data (Artists and Tracks)
  + Rating Based Recommendation
  + Content Based Recommendation
  + Collaborative Filtering
  + Hybrid Approach [Using this]
  + Multi-Model [Probably This]

(Undecided)

* Web-Side:
  + Sign Up / Login
  + Trending Page
  + Search Bar (w/No. of recommendations)
  + Webpage Themes (Settings)

Attributes encodings from Main Dataframe:

|  |  |
| --- | --- |
| Release Date to Year | One-Hot Encoding |
| Key (Music Key) | One-Hot Encoding |
| Mode (Major/Minor) | One-Hot Encoding |
| Artists | Target Encoding |
| Artists Id | Target Encoding |
| Explicit Song | Label Encoding |

Main Approach for the recommender system: