1. Title

Personalized Music Recommendations : A comparative analysis of various music recommendation system and their strengths and applicability for personalized music recommendation.

2. Brief problem statement

When a person logs in to a streaming App an ideal user experience is that they get personalised Music recommendation of their choice. This positive user experience is the ultimate validation of a music recommendation system.

3. Background information: Include domain information, problem description and analysis, possible applications

When a user wants to listen to music rather than forcing them to search for the right music through the library of recordings if we can predict based on their history, their profile, what’s trending and what other users with similar choice are listening then they will have a much more positive experience.

4. Motivation for selection of the project  
5. Detailed dataset description and dataset source  
6. Current benchmark: provide references (if any)  
7. Proposed Plan:

Rather than a single model we propose an ensemble of various models which can be customised on per user basis.

a. approaches

b. stages with defined deliverables,

c. methodology

i. packages and tools

ii. algorithms

* Market Basket Analysis
* Gradient Boosting.
* Neural Netowrking

iii. metrics

iv. deployment plan (eg. Gradio/ Streamlit / FastAPI etc.)

8. Preliminary Exploratory Data Analysis

9. Expected outcomes

10. Project demonstration strategy (tentative plans)  
11. Proposed timeline of project stage executions (eg. Gannt chart): Include weekly progress goals for each of the 4 Capstone Project Mentored Sessions. 12. Team members’ names  
13. Designated team co-ordinator’s name(s)

Title

Personalized Music Recommendations