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MUSIC RECOMMENDATION ALGORITHM

The Problem:

- Recommending new songs to users based on songs they like.
- The need for a more complex and effective music recommendation algorithm based on different factors and actually recommending users songs they will like.

What is being done now:

- Current music recommendation algorithms use “genre” as their primary indicator of recommendation.

How our proposed work is different:

- We will be using a combination of different attributes from the Kaggle dataset to recommend songs to the user.
- We will research the correlation between different attributes, such as “artist” and “genre”, in order to improve the current recommendation algorithms.

Preliminary Plan (milestones):

- Creating the Github repository for storing different files such as:
 - Project proposal
 - Report
 - Research
 - Programs
- Deep dive into the research papers.
- Implementation of a music recommendation algorithm using different machine learning algorithms like the hybrid approach, the naive approach, and neural networks.

- Documentation that include the following:
 - Introduction
 - Problem description
 - Summary of program design issues.
 - Description of specific problems we faced and how we solved them.
 - Documentation of the implementation
 - Results
 - Conclusions and future work

Introduction:

Problem Description:

Description of the dataset used:

What we have done so far:

What needs to be done:

References (list of papers):

[1] Kaggle Dataset:

<https://www.kaggle.com/code/vatsalmavani/music-recommendation-system-using-spotify-dataset/data>

[2] Adiyansjah, Alexander A S Gunawan, Derwin Suhartono, Music Recommender System Based on Genre using Convolutional Recurrent Neural Networks, Procedia Computer Science, Volume 157, 2019, Pages 99-109, ISSN 1877-0509, <https://doi.org/10.1016/j.procs.2019.08.146>.

[3] Doke, N., Joshi, D. (2020). Song Recommendation System Using Hybrid Approach. In: Bhalla, S., Kwan, P., Bedekar, M., Phalnikar, R., Sirsikar, S. (eds) Proceeding of International Conference on Computational Science and

Applications. Algorithms for Intelligent Systems. Springer, Singapore.
https://doi.org/10.1007/978-981-15-0790-8_31