DEPARTMENT OF APEX INSTITUTE OF TECHNOLOGY

PROJECT PROPOSAL

1. Project Title: -

Music Genre Classification

2. Project Scope: - (Max 500 words)

In short, I can define my project problem statement as like given multiple audio files, and the task is to categorize each audio file in a certain category like audio belongs to Disco, hip-hop, etc. The music genre classification can be built using different approaches in which the top 3 approaches that are mostly used are listed below.

- Support vector machine
- K-Nearest Neighbors
- K-means clustering algorithm

3. Requirements: -

➢ Hardware Requirements
1. CPU: Quad-core Intel Core i5 or higher
2. RAM: 8GB
3. Storage: 256GB SSD

➢ Software Requirements
1. Language: Python and libraries like NumPy, Pandas, and Matplotlib
2. Machine Learning Algorithms : KNN, SVM and K-Means Clustering.
3. Development Tools: Google Collab, Jupyter Notebook, and VS Code

STUDENTS DETAILS

Name	UID	Signature
ANUP	20BCS3923	

APPROVAL AND AUTHORITY TO PROCEED

We approve the project as described above, and authorize the team to proceed.

Name	Title	Signature (With Date)
PULKIT DWIVEDI	ASSISTANT PROFESSOR	