**Department of Computer Science and Engineering (AI & ML)**

**IV B. Tech. SEM - I A.Y: 2024-25**

INDUSTRY ORIENTED MINI PROJECT

**Branch/Section: CSE(AI & ML)**

# Team Number: 5

**Team Leader:** Sruthi Komatineni (21BD1A662X)

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**Domain Bucket/Name: Machine Learning**

**IOMP Title/Statement: Emotion based music recommendation System**

**Abstract:**

The emotion-based-music project focuses on recommending music based on the user’s emotional state. The system utilizes emotion detection techniques to analyze the user's mood and then suggests music tracks that match or improve this emotional state. The project uses a dataset of music categorized by genres and moods to facilitate accurate recommendations. It employs machine learning models for emotion recognition and integrates with music streaming services (YouTube) to fetch and play the recommended tracks. The technology stack used in the project includes Python as the primary programming language, with machine learning libraries such as TensorFlow, PyTorch for developing and training emotion recognition models. The primary goal is to create a personalized music experience by aligning music selections with the user’s current emotional needs.

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**GUIDE SIGNATURE:**