

DEPARTMENTOFAPEXINSTITUTEOFTECHNOLOGY

1. **ProjectTitle: -**  
     
   Song Recommendation System by Facial Recognition

# ProjectScope:-

# This project has a broad scope of music information as it provides a better platform for all music listeners by automating song selection and updating playlists regularly based on the user's identified emotion. These assist users in organizing and playing songs based on their mood, making them less stressed. It can be used to determine the mood of physically challenged people

# Music is widely used for mood and emotion regulation in our daily life. As a result, many research works on music information retrieval and affective human-computer interaction have been proposed to model the relationships between emotion and music. However, most of these works focus on applications in a context-sensitive recommendation that considers the listener’s emotional state, but few results have been obtained in studying systems for inducing future emotional states. This paper proposes a novel music recommendation system based on reinforcement learning (RL) capable of inducing emotions in the user to support the interaction process in several usage scenarios

# Requirements:-.

**Hardware Requirements:**

A PC with Windows/Linux OS

Processor with 3.2Hz speed

Minimum of 4gb RAM

4gb Graphic card

**Software Requirements:**

For Recommendation Models:

Text Editor (Google-Colab)

Anaconda distribution package (PyCharm Editor, Jupyter Notebook)

Python libraries

Tensorflow

# PROJECT OUTCOME: -

Research Paper based Project.

# 5. STUDENT DETAILS: -

|  |  |  |
| --- | --- | --- |
| **Name** | **UID** | **MobileNumber** |
| **AKSHAT PARETA** | 20BCS6567 | **6376822783** |
| **RIBHAV SHARMA** | 20BCS6558 | **6230119601** |
| **ROHAN MISHRA** | 20BCS4456 | **8858252483** |
| **SIMRANJEET SINGH** | 20BCS6575 | **7006946006** |

**APPROVAL AND AUTHORITY TO PROCEED**

|  |  |  |
| --- | --- | --- |
| **Name** | **Title** | **Signature(withDate)** |
| **HIMANSHU MISHRA(E12760)** | **Supervisor** |  |

Weapprovetheprojectasdescribedabove,andauthorizetheteamtoproceed.