**Multi-Model Approach to Recommend**

**Personalized Music Playlist**

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**Status Document – 1**

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Description automatically generated**Sri Lanka**

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# Introduction

­­Music recommender systems play a crucial role in assisting users to discover new music that aligns with their preferences, enhancing their overall music consumption experiences. The end goal of our research is to implement a new system to provide a personalized music experience to the user. As we have conducted a survey, we have found that the Age group and the Gender of the music listener is impacting to the music recommendation. Therefore, my contribution to the recommender system is to identify and analyze user profile based on a selfie image to overcome the main problems in existing music applications, which are cold start problem, lengthy forms to fill when signing up to the system by introducing an innovative approach. I have implemented a convolutional neural network (CNN)-based facial image classification model. This model will harness deep learning technologies to accurately discern users' age and gender through their facial features. Integrating this facial image classification model with our music recommendation system will create a unified mobile application.

This document is prepared to showcase the status of the project along with the proofs with screenshots of the teamwork within the group.

# Work Breakdown Chart

A diagram of a music playlist

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# Gantt Chart

A screenshot of a computer

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# Finding Supervisors and Selecting the research topic

A screenshot of a email

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# A screenshot of a computer Description automatically generatedA screenshot of a computer Description automatically generatedData Gathering and Research

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# A screenshot of a chat Description automatically generatedMS Teams Group Creation and continuous meetings

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# Maintaining a OneDrive (Cloud) Folder for easy collaboration

A screenshot of a computer

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A screenshot of a computer

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# A screenshot of a group of people Description automatically generatedMaintaining a WhatsApp Group for the Team collaboration



# Maintaining a logbook

A notebook with writing on it

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# Progress so far….

# A screenshot of a computer program Description automatically generated

A graph of loss and accuracy

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