Multi-Model Approach to Recommend Personalized Music Playlist

TMP - 2023 - 24 - 065

Status Document – 2

Fernando M.P.T.K. – IT20610852 **Supervised by –** Mr. Thusithanjana Thilakarathne

B.Sc. (Hons) Degree in Information Technology

Department of Information Technology

Sri Lanka Institute of Information Technology
Sri Lanka

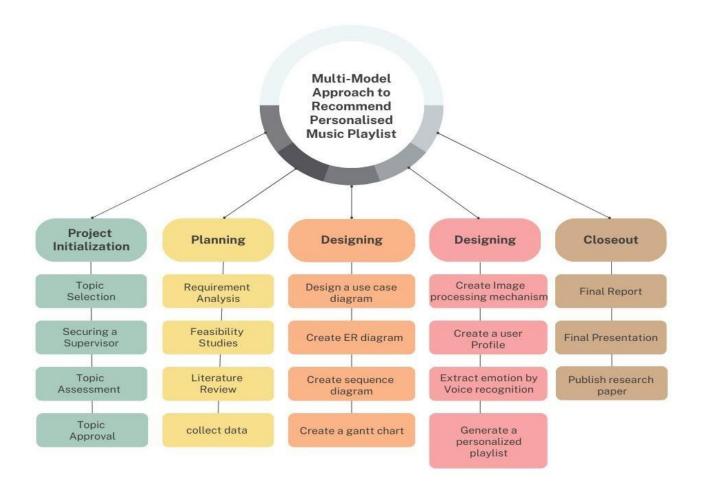


March 2024

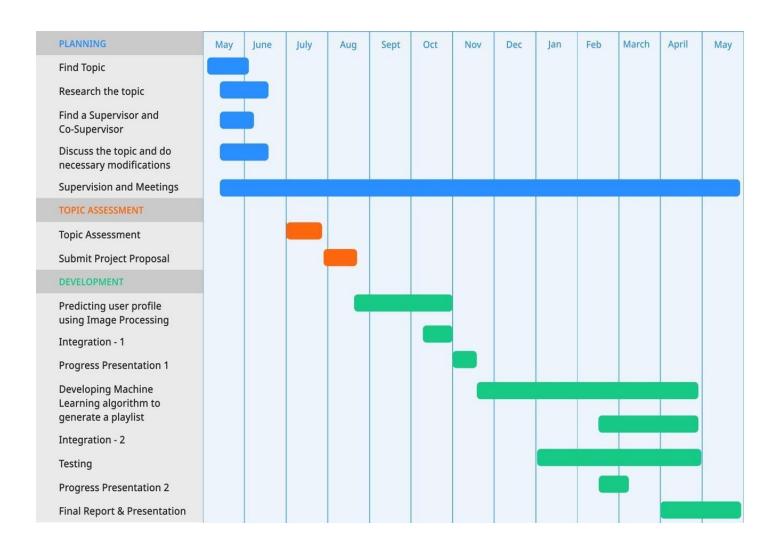
Contents

Gantt Chart
Continuous Team Collaboration via MS Teams
Sample WhatsApp chats
Team Collaboration and project management via OneDrive
User Interfaces of the 'MeloWave' Mobile Application
Model accuracy and loss & Prediction Model11
Field testing
App testing feedbacks13

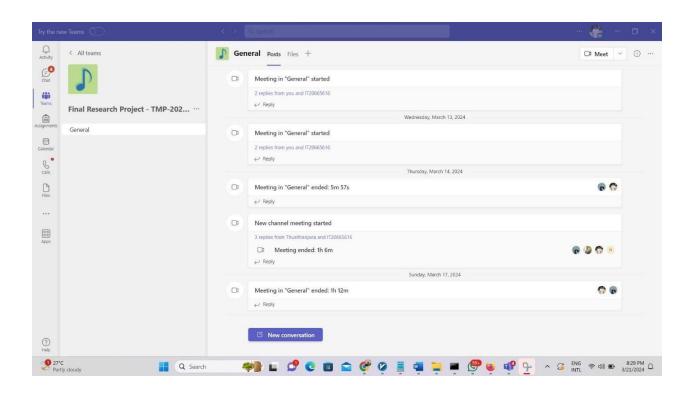
Work Breakdown Chart

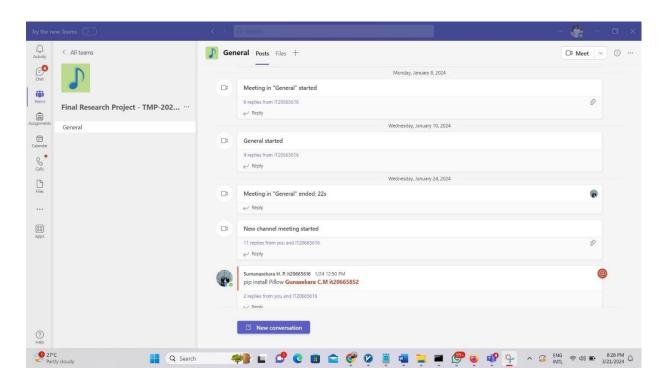


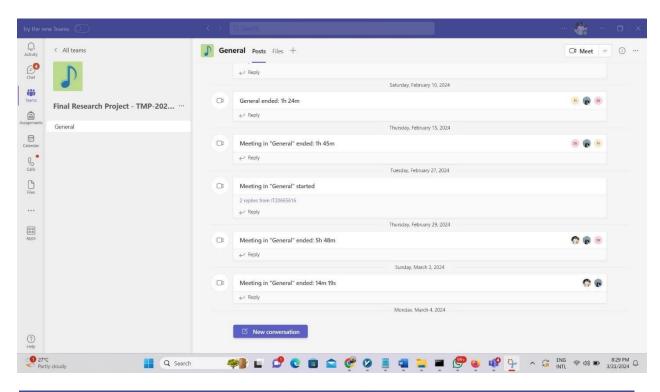
Gantt Chart

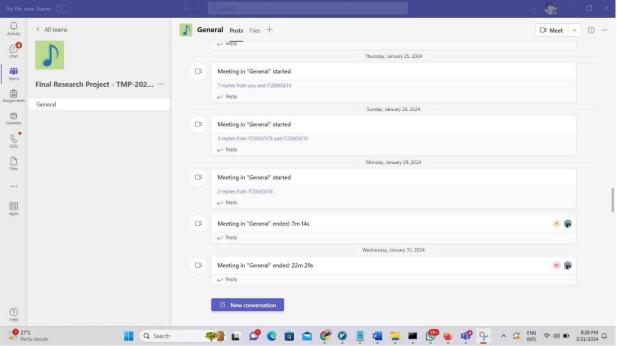


Continuous Team Collaboration via MS Teams.

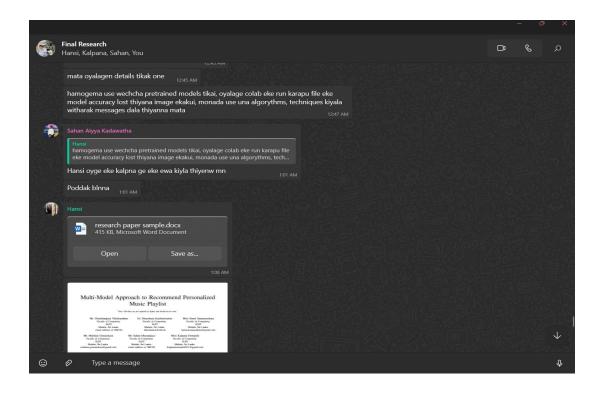


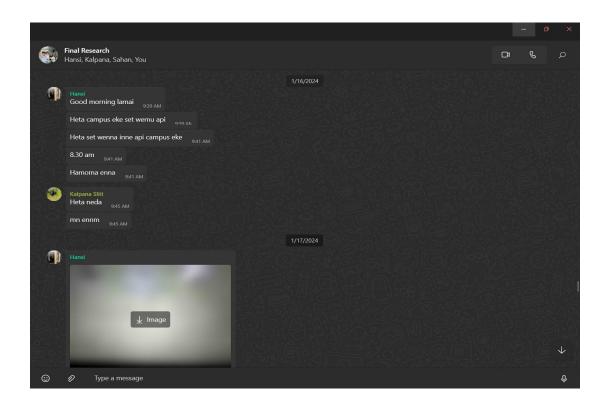


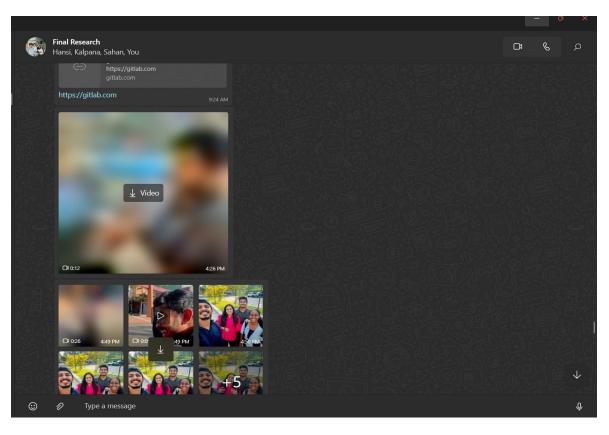


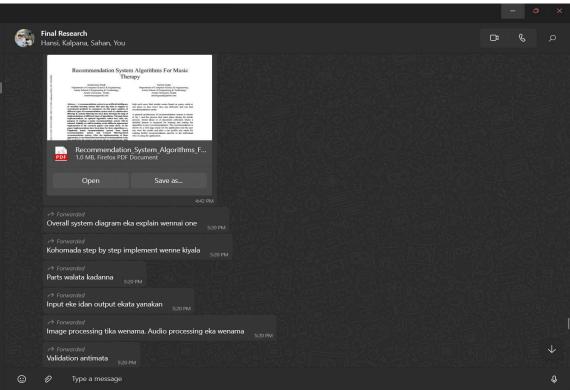


Sample WhatsApp chats

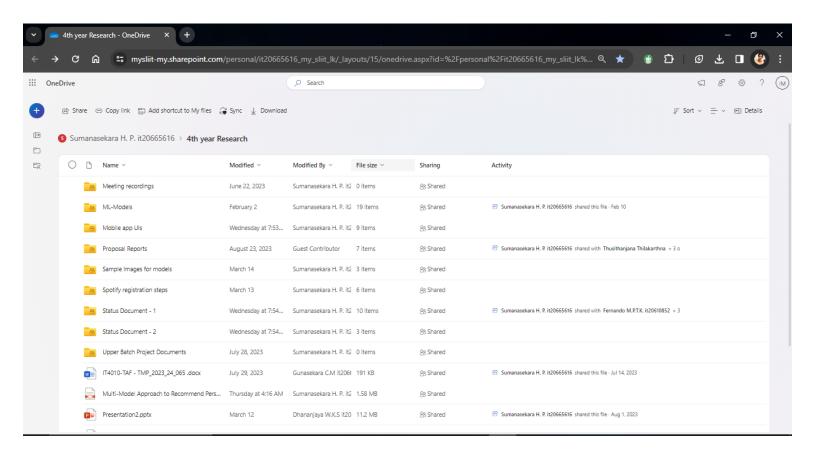




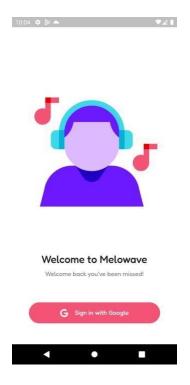


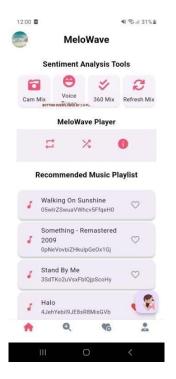


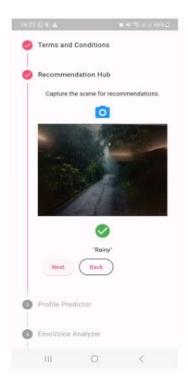
Team Collaboration and project management via OneDrive.



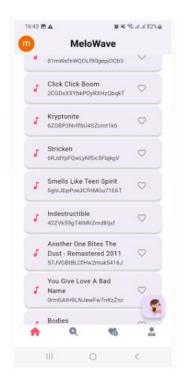
User Interfaces of the 'MeloWave' Mobile Application.











Model accuracy and loss & Prediction Model

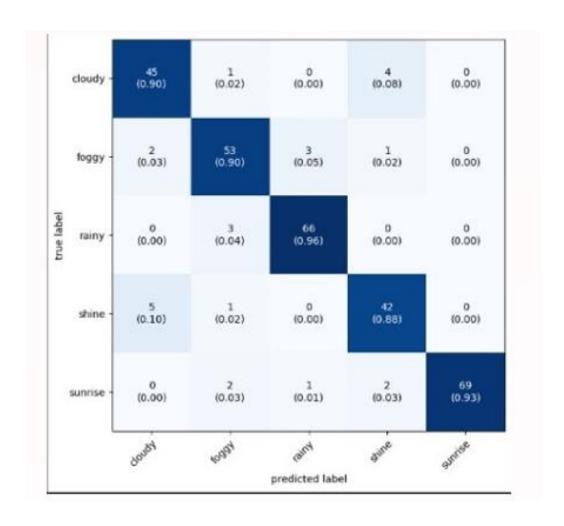
```
Weather-prediction.ipynb 
                                                                                                                                            🚜 Share 🌼
                                                                                                                              Comment
       File Edit View Insert Runtime Tools Help Save falled
                                                                                                                               ✓ T4 RAM
Disk
                                                                                                                                              @ Colab Al
                             150/150 [=
    130/130 [===
130/130 [====
149/150 [===
Q
           {x}
           T49/150 [=============].] - ETA: 0s - loss: 0.0342 - accuracy: 0.9941

Epoch 12: val_accuracy did not improve from 0.90667

150/150 [==================] - 6s 42ms/step - loss: 0.0342 - accuracy: 0.9942 - val_loss: 0.3931 - val_accuracy: 0.8700
©₹
           150/150 [====
Epoch 13/30
T49/150 [=========].] - ETA: 0s - loss: 0.0275 - accuracy: 0.9983

Epoch 13: val_accuracy did not improve from 0.90667

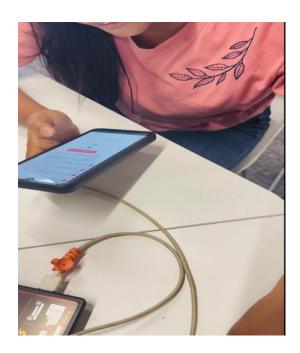
150/150 [================] - 6s 43ms/step - loss: 0.0276 - accuracy: 0.9983 - val_loss: 0.4452 - val_accuracy: 0.8700
           Epoch 14/30
           [35] loss,accuracy = model.evaluate(x_test,y_test)
           print(f"Loss: {loss}")
print(f"Accuracy: {accuracy}")
           10/10 [------
Loss: 0.37687984108924866
                                        =====] - 6s 270ms/step - loss: 0.3769 - accuracy: 0.8833
<>
           Accuracy: 0.8833333253860474
↑ ↓ © □ ‡ 🖟 📋 :
```

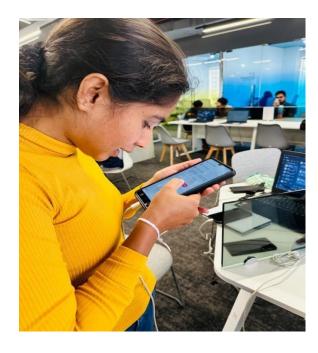


Field testing









App testing feedbacks

