

# Sri Lanka Institute of Information Technology

Status Document 01

2024

GROUP ID: R24-102



## **Strengthening Heart Disease Prediction With CNN: Adversarial Robustness Against Multiple Attacks**

Reg No: IT21023514

Name: Karandawala D.N

Batch: Cyber Security

## Table of Contents

1.	Microsoft Teams Calls.....	3
2.	WhatsApp calls and text message communication with the supervisor. ....	6
3.	Email Communications with Supervisors .....	9
4.	Microsoft Planner.....	10
5.	Gantt Chart .....	12
6.	Work Breakdown Structure .....	12
7.	GitLab Commits.....	13

# 1. Microsoft Teams Calls

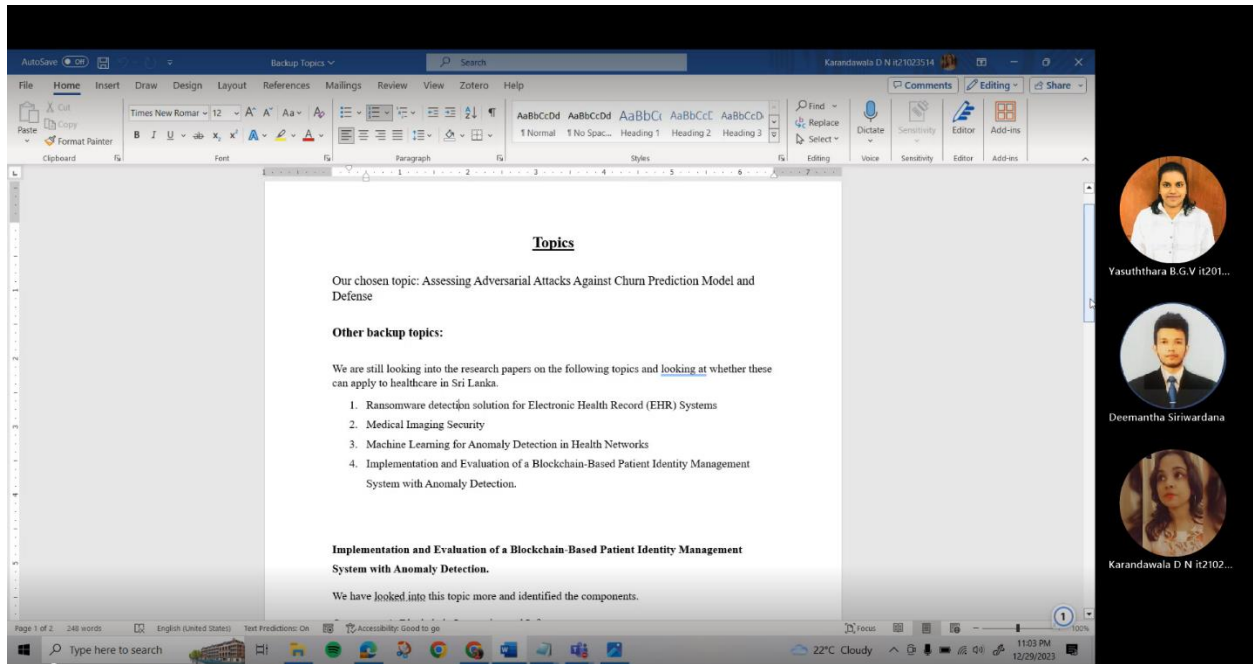


Figure 1 Teams Call with Co-Supervisor

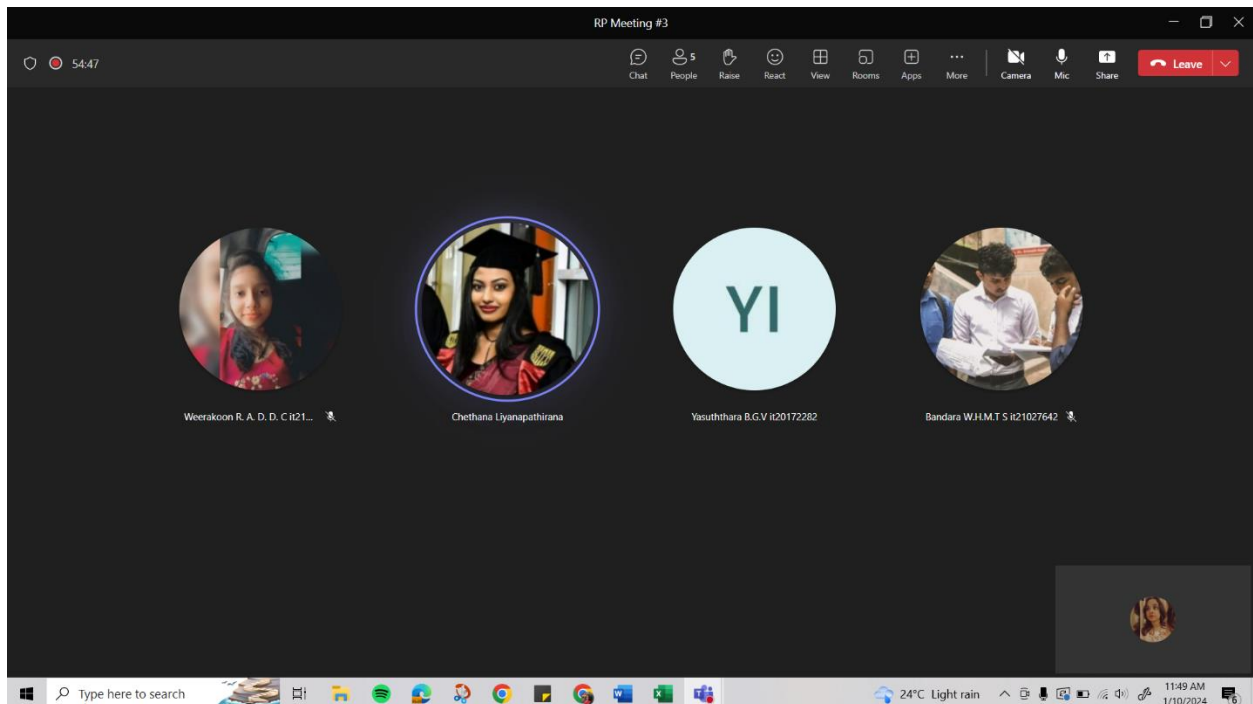


Figure 2 Teams Call with Supervisor

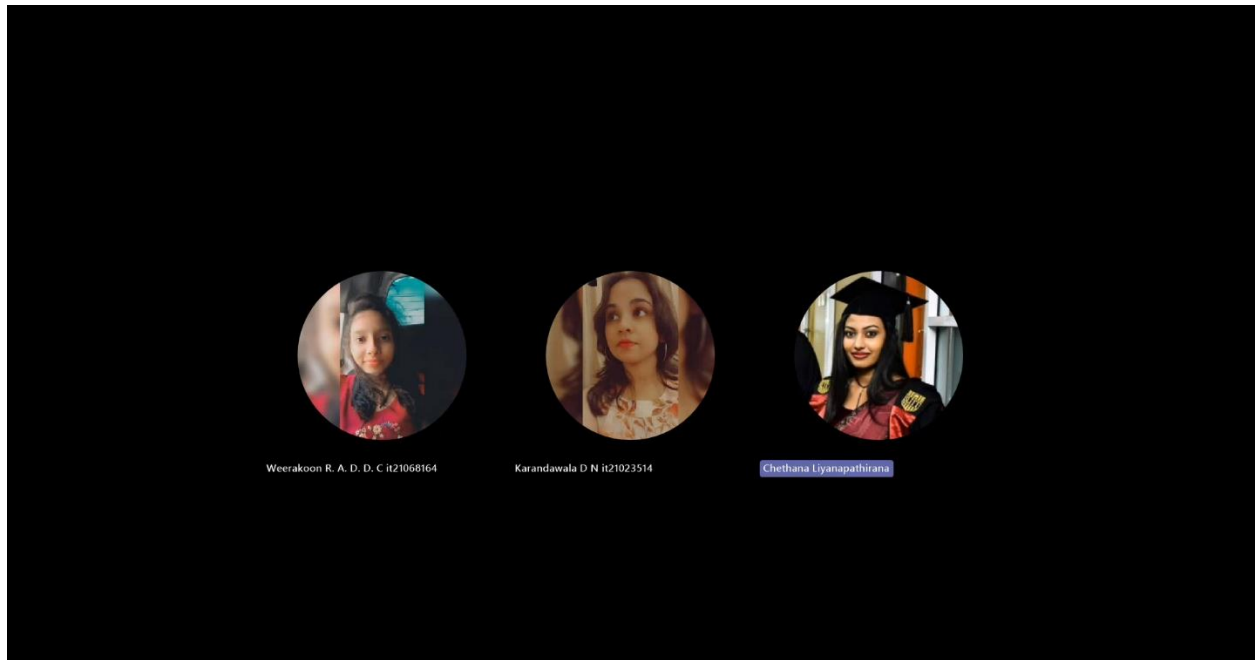


Figure 3 Teams Call with Supervisor

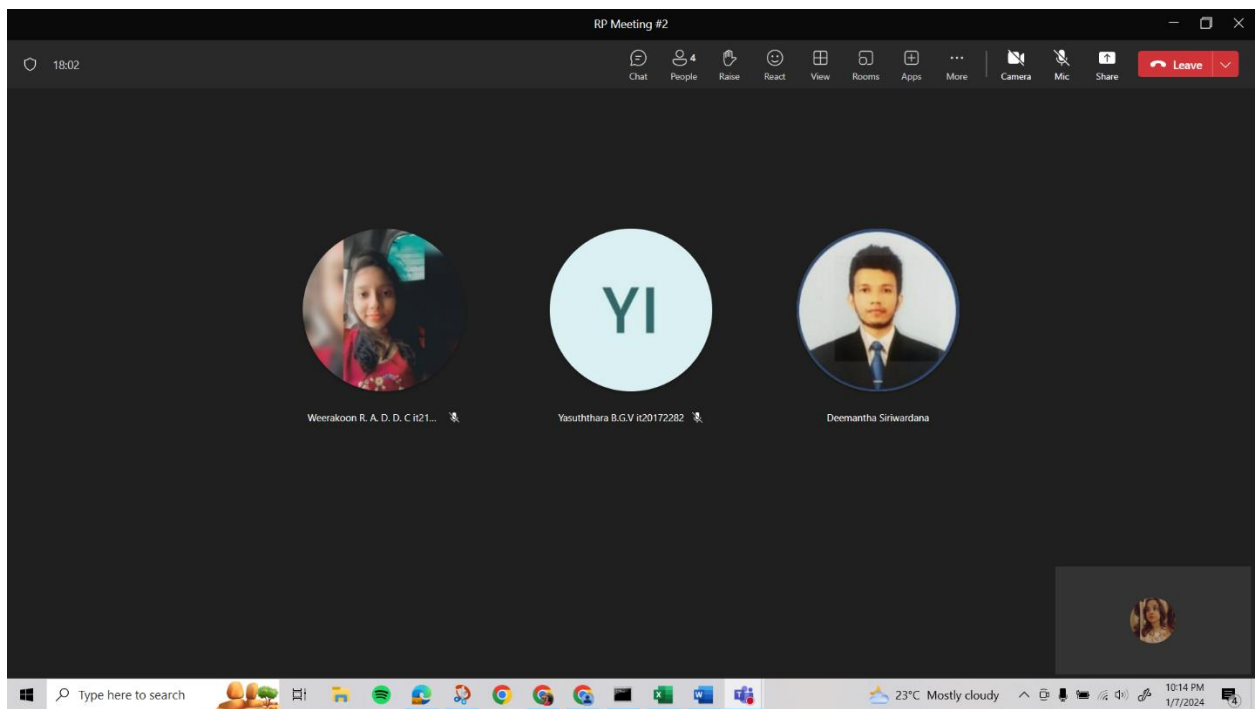


Figure 4 Teams Call with Co-Supervisor

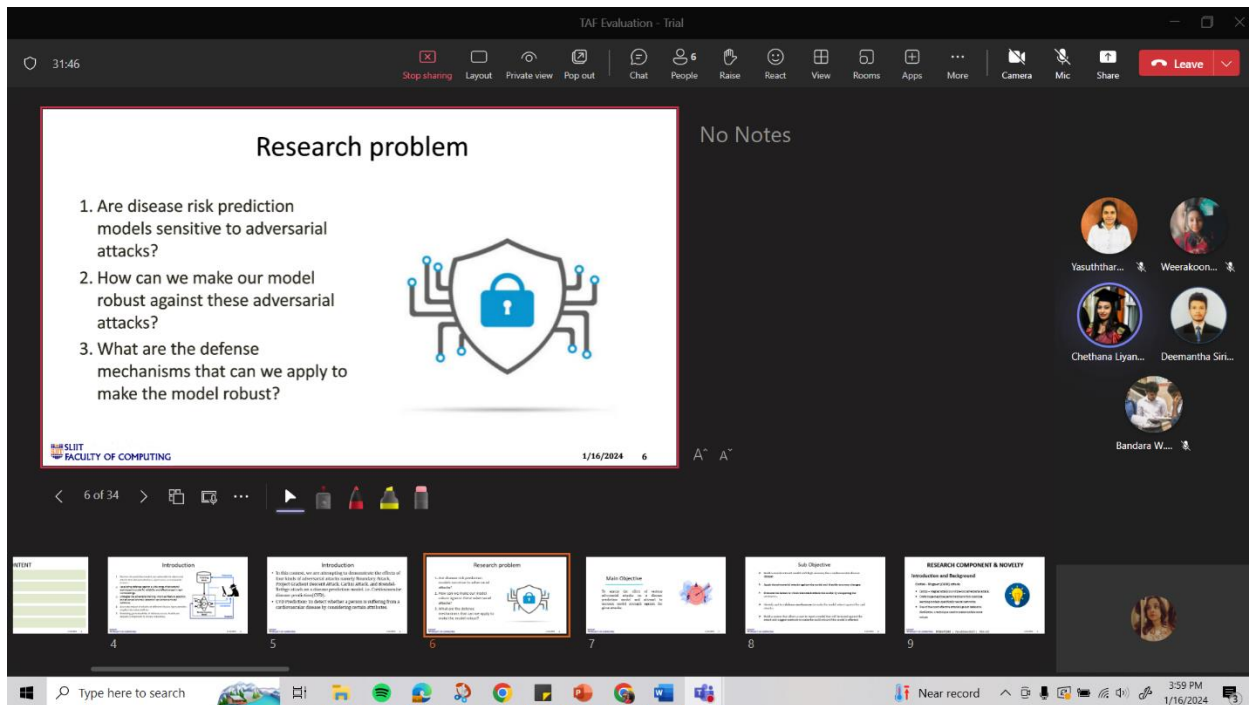


Figure 5 Teams Call with Supervisors

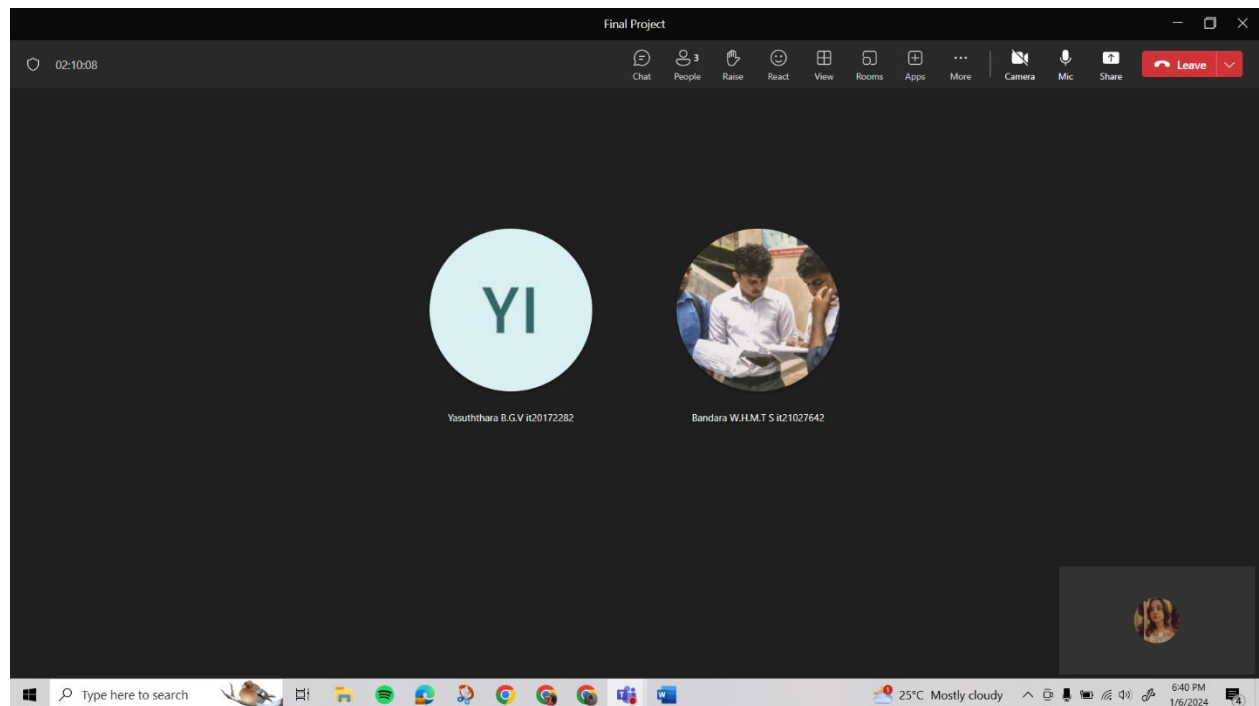


Figure 6 Teams Call with Team

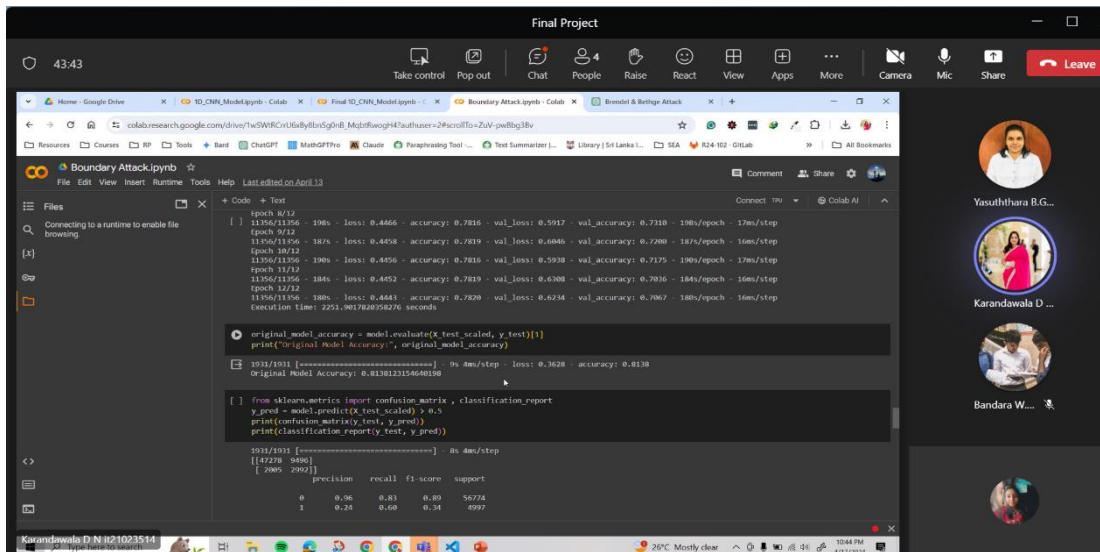
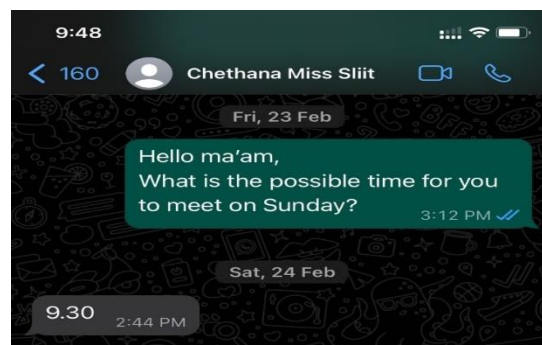


Figure 7 Teams Call with Team

## 2. WhatsApp calls and text message communication with the supervisor.





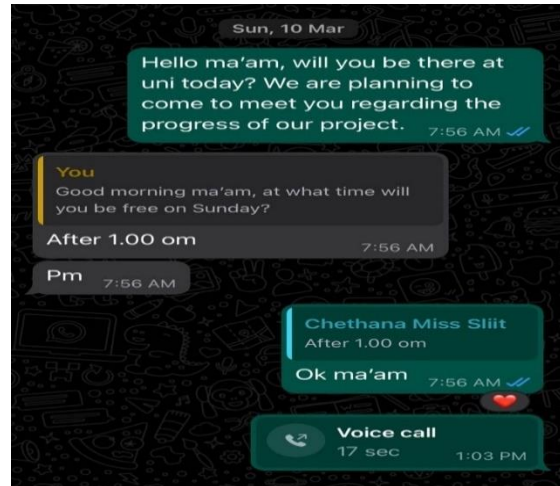
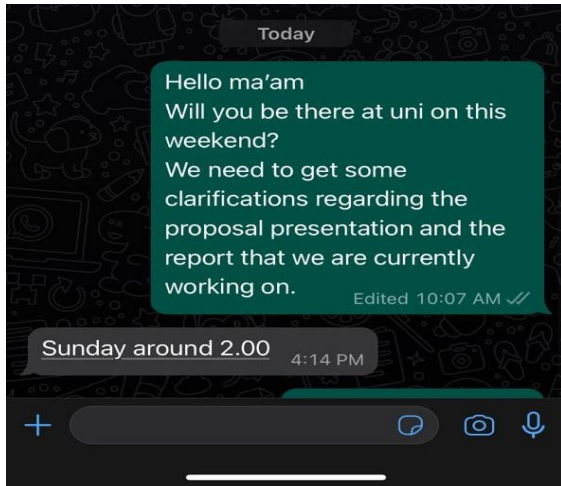


Figure 7 Meeting Confirmations with Supervisor

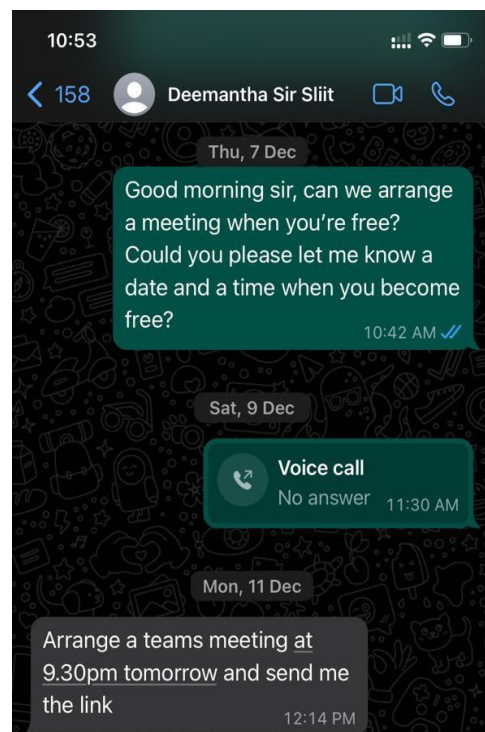
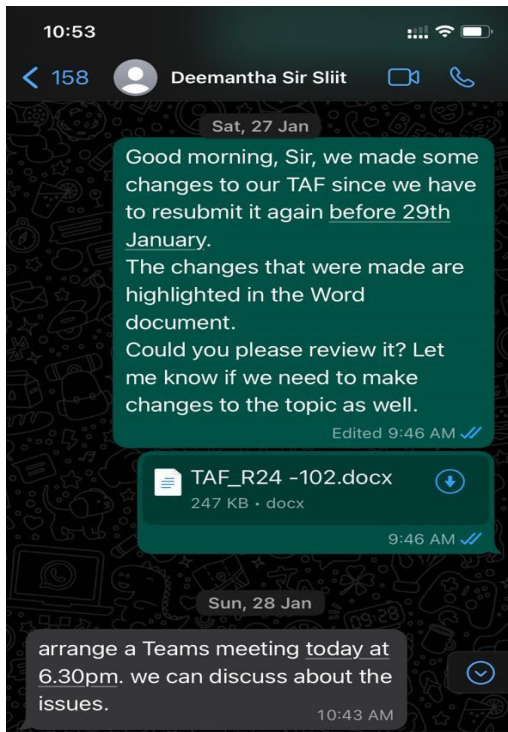


Figure 8 Meeting Confirmations with Supervisor

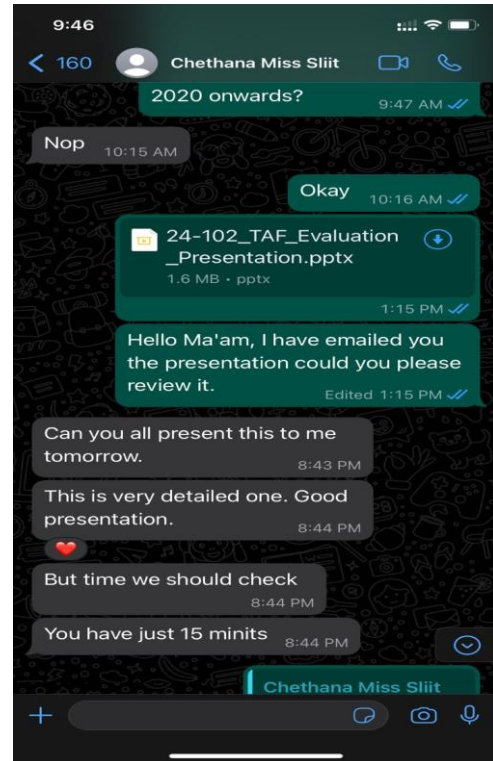
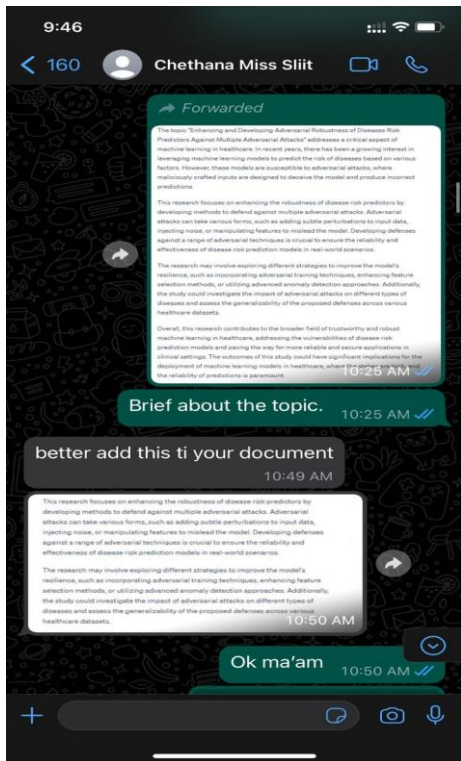


Figure 9 Feedback on project works



### 3. Email Communications with Supervisors

**Feedback on Project Proposal Presentation**

Karandawala D N it21023514  
To: Chethana Liyanapathirana  
Cc: Deemantha Siriwardana  
Sun 18/02/2024 12:02

R24-102\_Proposal\_Presentati... 1 MB  
R24-102\_Proposal\_Presentati... 5 MB

2 attachments (6 MB) Save all to OneDrive - Sri Lanka Institute of Information Technology

Download all

Dear Ma'am / Sir,

I have attached our completed project proposal presentation with this email for your reference. Some clarifications need to be clarified as well regarding this presentation. Your guidance and feedback are important on this. So we are planning to come to the university tomorrow to discuss the presentation and our progress on the task. If you are available, could you please give us a time?

Thanks & regards,  
Devindi Karandawala.

**TAF Evaluation Presentation**

Karandawala D N it21023514  
To: Chethana Liyanapathirana  
Mon 15/01/2024 13:14

24-102\_TAF\_Evaluation\_Prese... 2 MB

Dear Ma'am,

This is the presentation for TAF. Could you please review it and give us feedback on it?

Thanks & regards,  
Devindi Karandawala.

Reply Forward

**Proposal Report Feedback and Signature**

Karandawala D N it21023514  
To: Chethana Liyanapathirana  
Cc: Deemantha Siriwardana  
Thu 29/02/2024 00:10

IT21068164 Weerakoon R. A. ... 1 MB  
IT21023514 Karandawala D.N... 914 KB

Show all 4 attachments (5 MB) Save all to OneDrive - Sri Lanka Institute of Information Technology

Download all

Dear Ma'am / Sir,

The finalized project proposal reports of 4 members of our group are attached to this email. Your comments on the reports are highly appreciated. Could you please provide your signature in the space provided in the "Declaration" section?

Thanks and regards,  
Devindi Karandawala.

**Clarifications regarding PP1**

Karandawala D N it21023514  
To: Chethana Liyanapathirana  
Cc: Yasuththara B.G.V it20172282; Weerakoon R. A. D. C it21068164; Bandara W.H.M.T S it21027642  
Sun 21/04/2024 14:51

Dear Ma'am,

Since most of the clarifications regarding the PP1 were discussed today, there is one thing that we need to clarify.

We tested four sampling methods in order to deal with the data imbalance in the dataset and comparing the accuracies of these 4, we chose to go with SMOTE and Random Undersampling methods. (Both Combined)

Sampling Method	Accuracy
SMOTE Oversampling	0.80
NearMiss Undersampling	0.32
ADASYN Oversampling	0.79
Random Undersampling	0.80

Do we need to include Screenshots of the accuracies of the trained model by applying these four methods to the presentation?

Thanks & regards,

Figure 10 Email Communications with Supervisors

## 4. Microsoft Planner

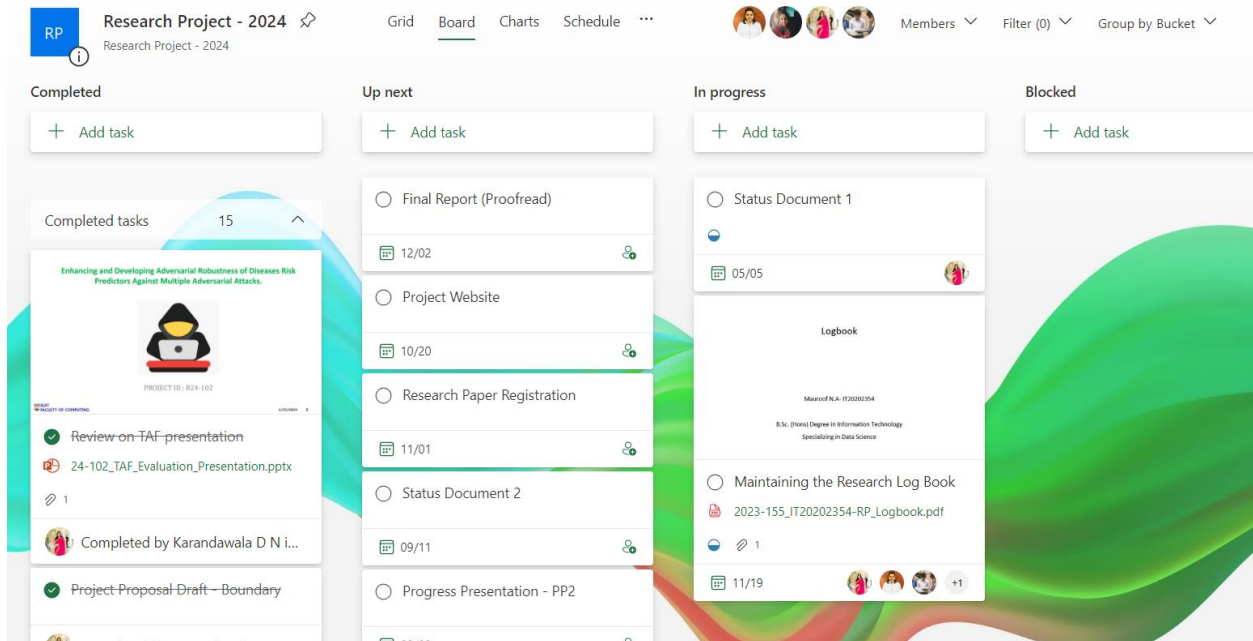


Figure 11 MS Project Planner

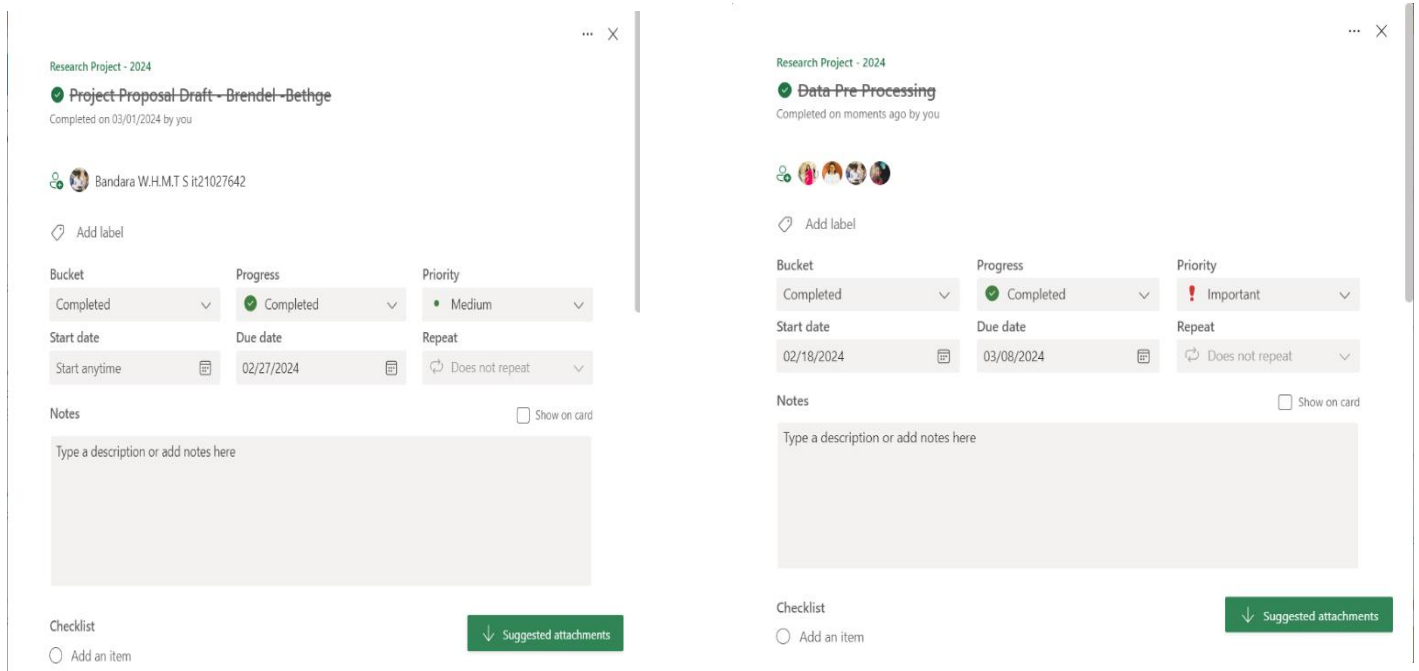


Figure 12 MS Project Planner

Research Project - 2024

Get a Doctor's opinion on Dataset

Completed on moments ago by you

Karandawala D N it21023514

Add label

Bucket

Completed

Progress

Completed

Priority

Urgent

Start date

03/10/2024

Due date

03/18/2024

Repeat

Does not repeat

Notes

Show on card

Type a description or add notes here

Checklist

Add an item

Suggested attachments

Figure 13 MS Project Planner

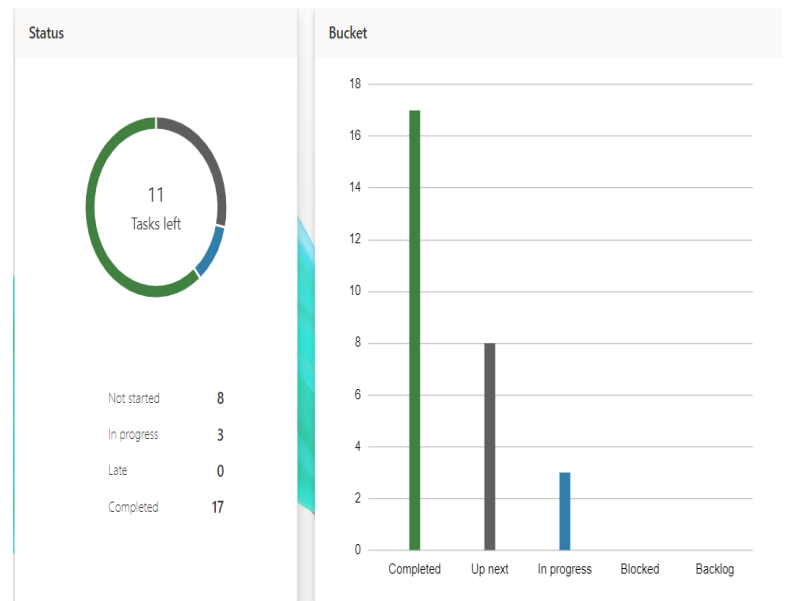


Figure 14 Project Planner graph

## 5. Gantt Chart

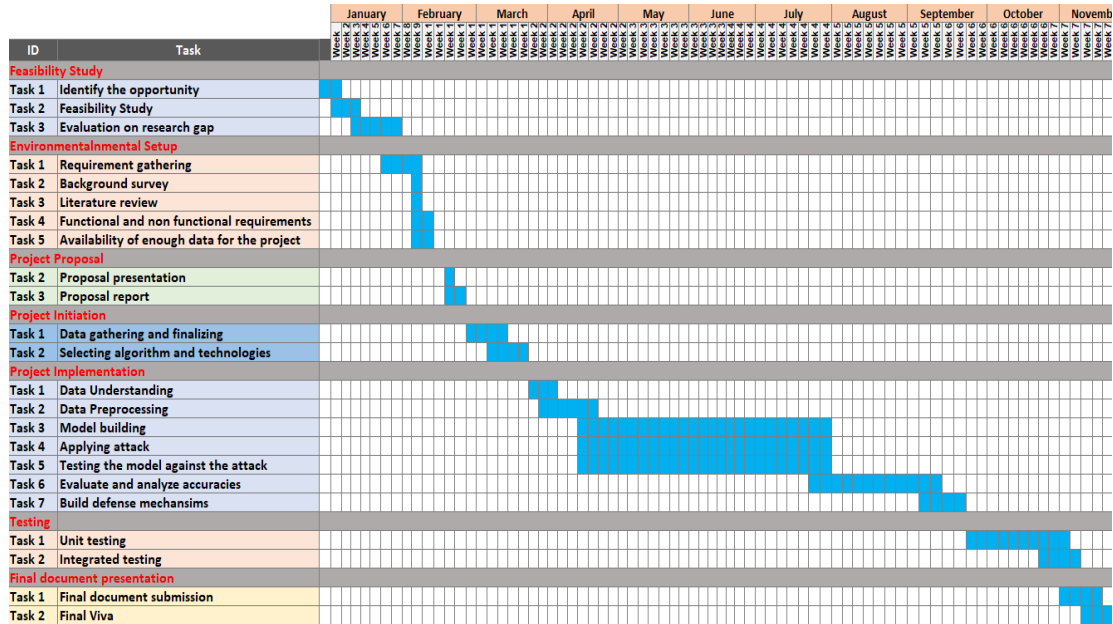


Figure 15 Gantt chart

## 6. Work Breakdown Structure

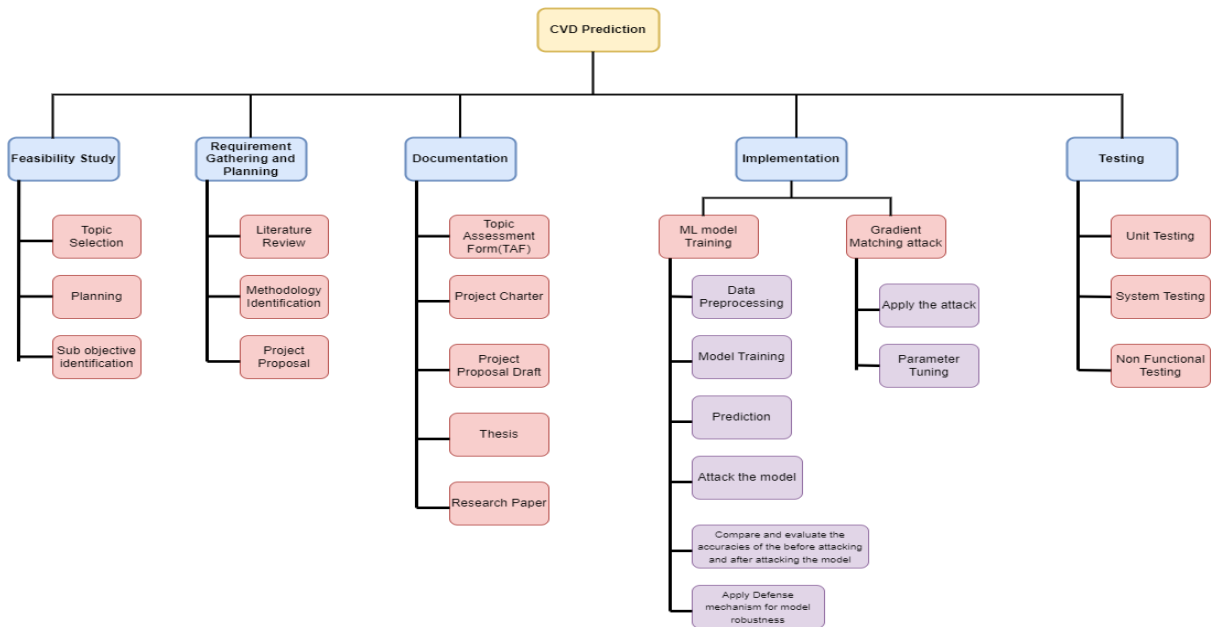


Figure 16 WBS

# 7. GitLab Commits

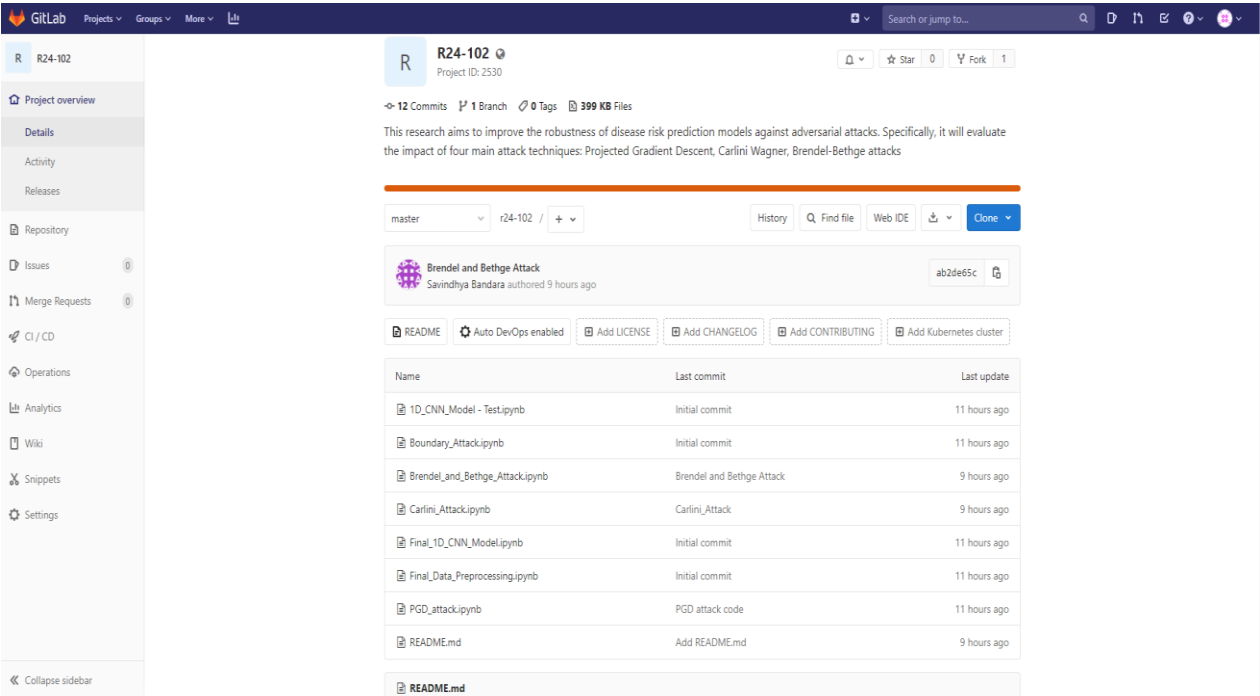


Figure 17 GitLab commits

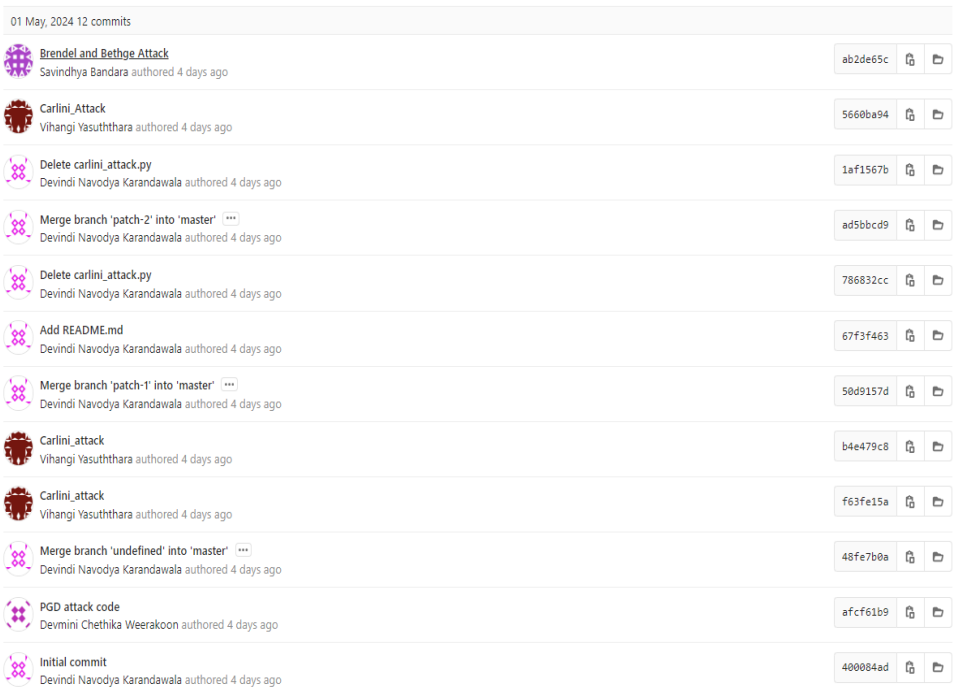


Figure 18 Branch Commits