

# Sri Lanka Institute of Information Technology

Status Document 02

2024

GROUP ID: R24-102



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

Reg No: IT21027642

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Batch: Cyber Security

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# 1. Microsoft Teams Calls

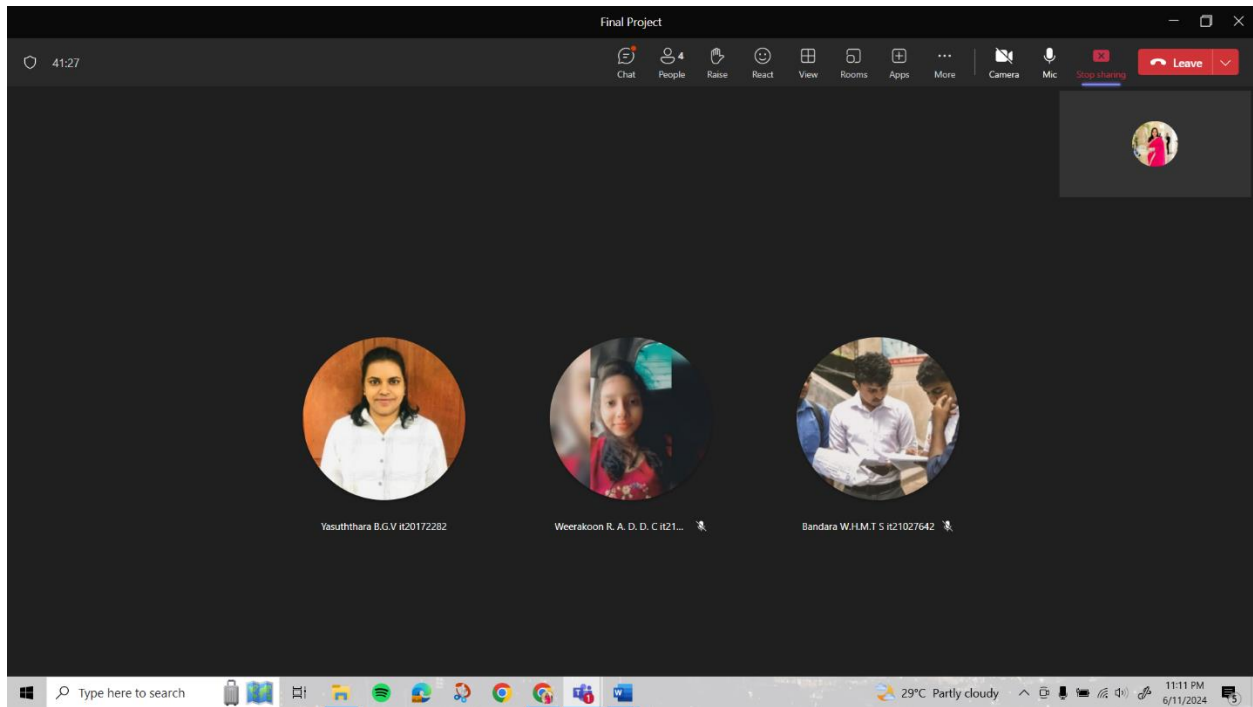


Figure 1: Teams call with team

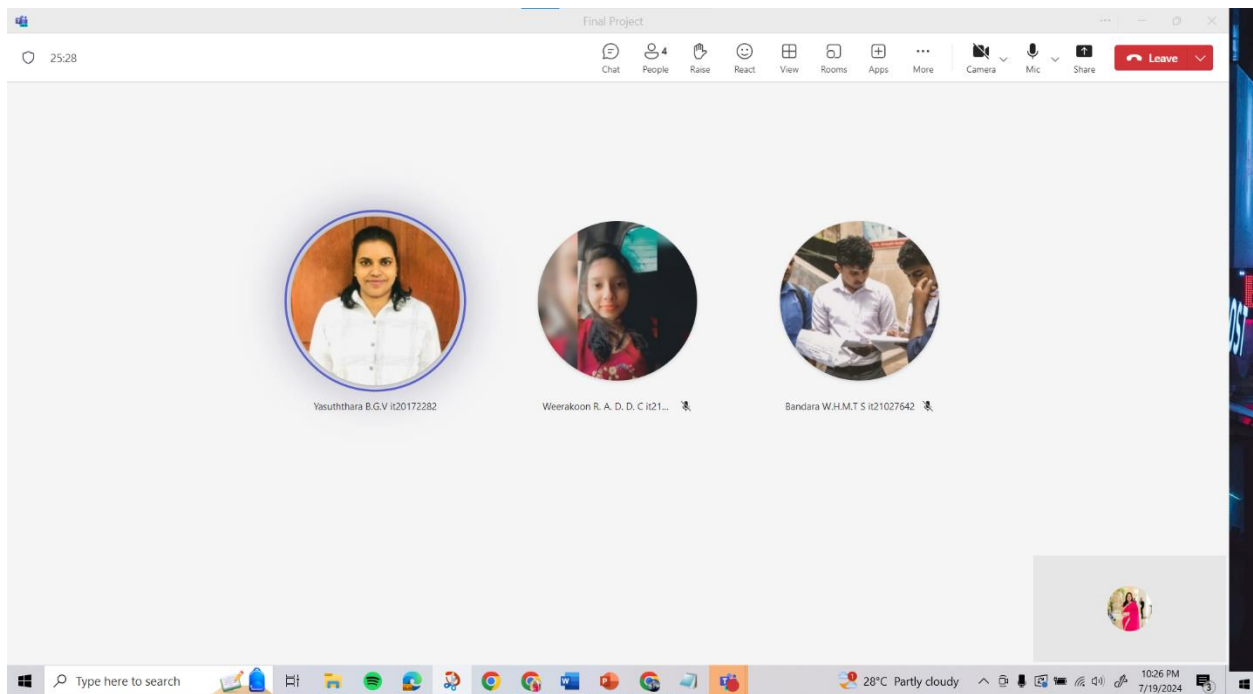


Figure 2: Teams call with team

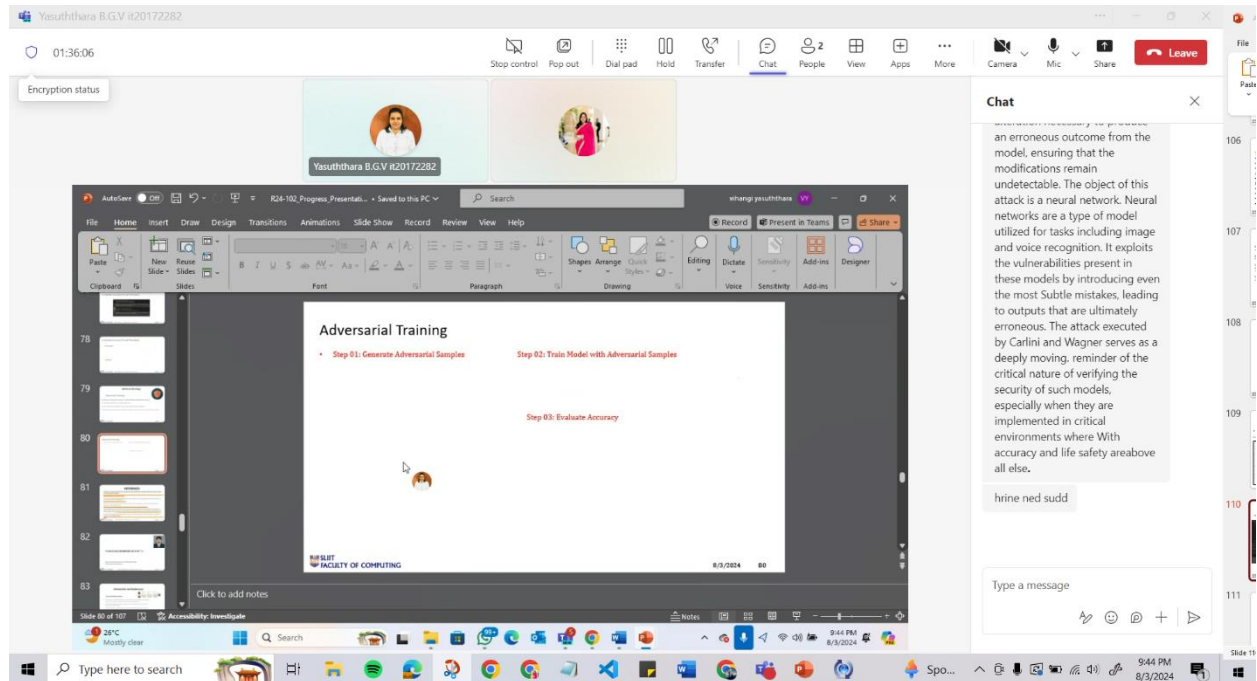


Figure 3: Teams call with team

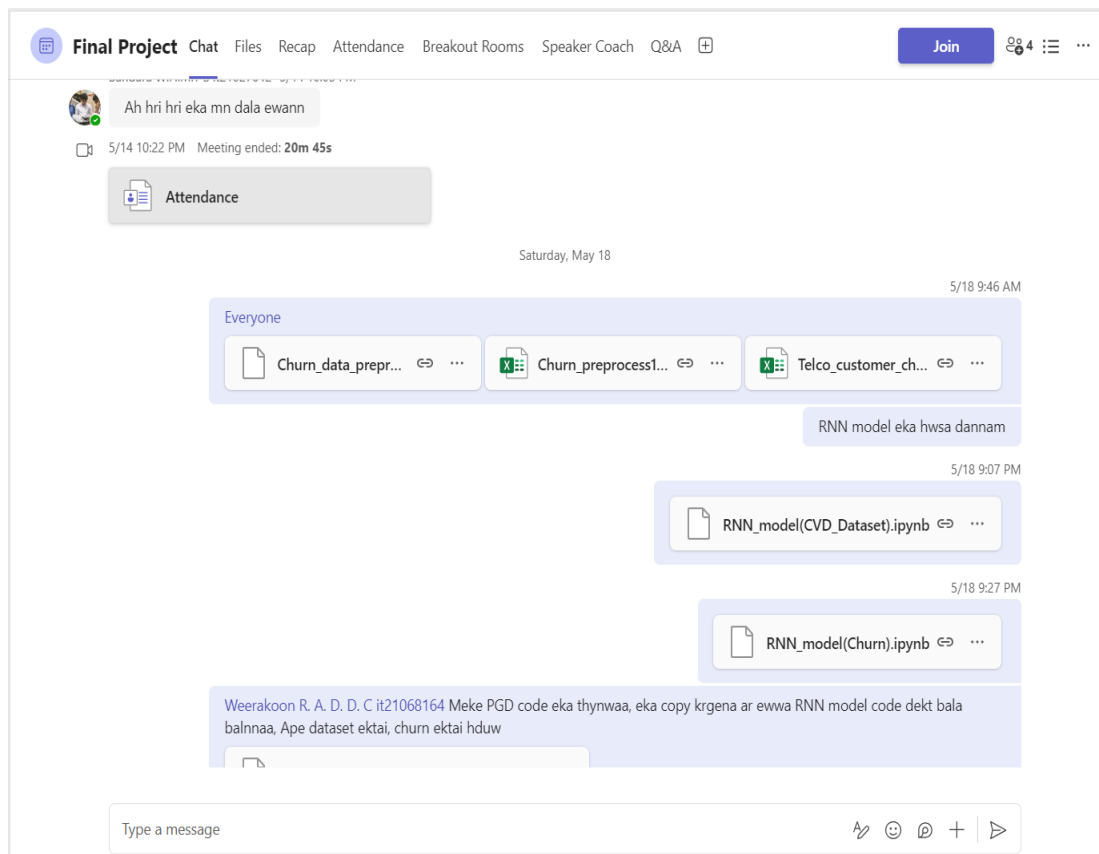


Figure 4: Teams meeting chat with the team

Final Project Chat Files Recap Attendance Breakout Rooms Speaker Coach Q&A				Join	
Upload					
	Name	Shared on ↓		Sent by	
	Thesis Methodology - Boundary Attack.docx	Friday, July 19, 2024		Karandawala D N it21023514	
	Final_Feed-forward_model.ipynb	Saturday, May 18, 2024		Karandawala D N it21023514	
	RNN_model(Churn).ipynb	Saturday, May 18, 2024		Karandawala D N it21023514	
	RNN_model(CVD_Dataset).ipynb	Saturday, May 18, 2024		Karandawala D N it21023514	
	Churn_data_preprocessing 1.ipynb	Saturday, May 18, 2024		Karandawala D N it21023514	
	Churn_preprocess1 1.csv	Saturday, May 18, 2024		Karandawala D N it21023514	
	Telco_customer_churn 1.csv	Saturday, May 18, 2024		Karandawala D N it21023514	
	R24-102_Progress_Presentation 1 3.pptx	Tuesday, May 7, 2024		Karandawala D N it21023514	
	carlini wagner.ipynb	Monday, May 6, 2024		Yasuththara B.G.V it20172282	
	PGD 1.ipynb	Monday, May 6, 2024		Weerakoon R. A. D. D. C it21068164	
	R24-102_Progress_Presentation 1 2.pptx	Sunday, May 5, 2024		Karandawala D N it21023514	
	992507900_NP (1).jpg	Sunday, May 5, 2024		Bandara W.H.M.T S it21027642	
	with SLIIT location - GPS example.jpg	Sunday, May 5, 2024		Weerakoon R. A. D. D. C it21068164	
	R24-102_Progress_Presentation 1 1.pptx	Tuesday, April 30, 2024		Karandawala D N it21023514	
	untitled15 1 .docx	Sunday, April 28, 2024		Yasuththara B.G.V it20172282	

Figure 5: Teams meeting chat with the team

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

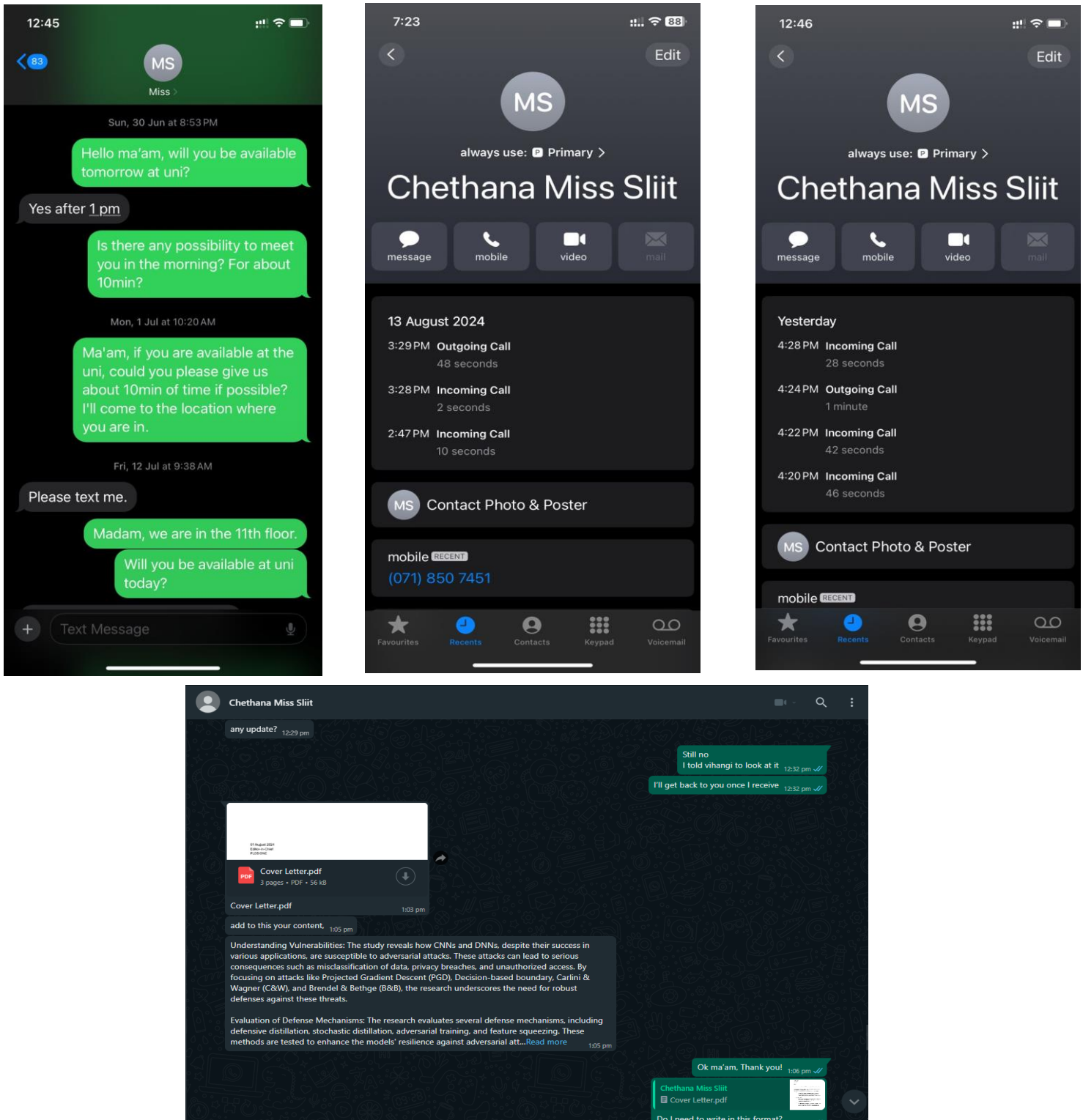


Figure 1: Meeting confirmations and feedbacks about the project from the supervisor

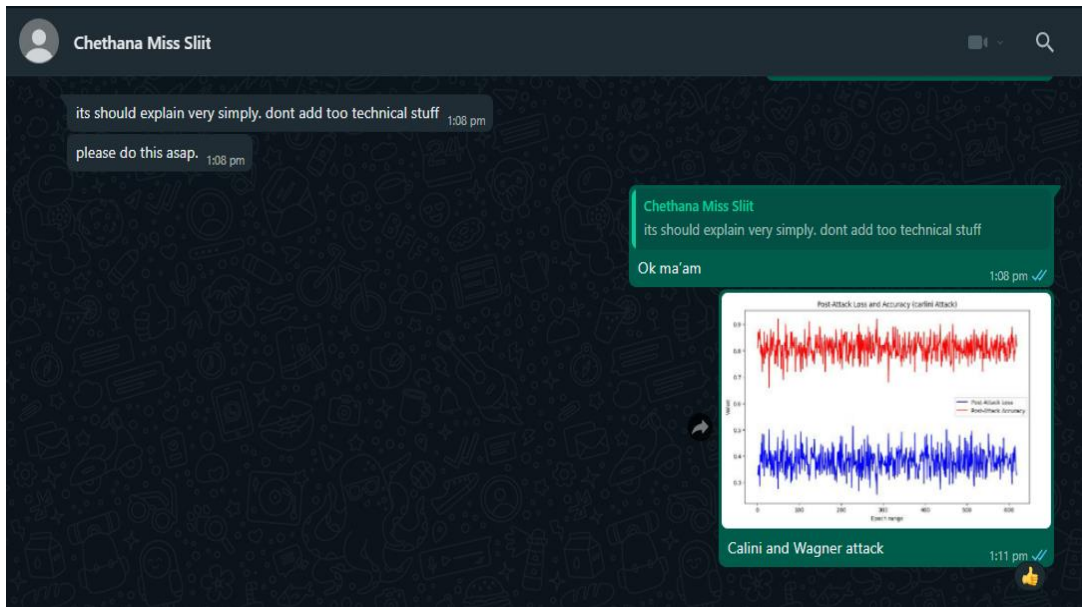


Figure 2: Supervisor's feedbacks on project work

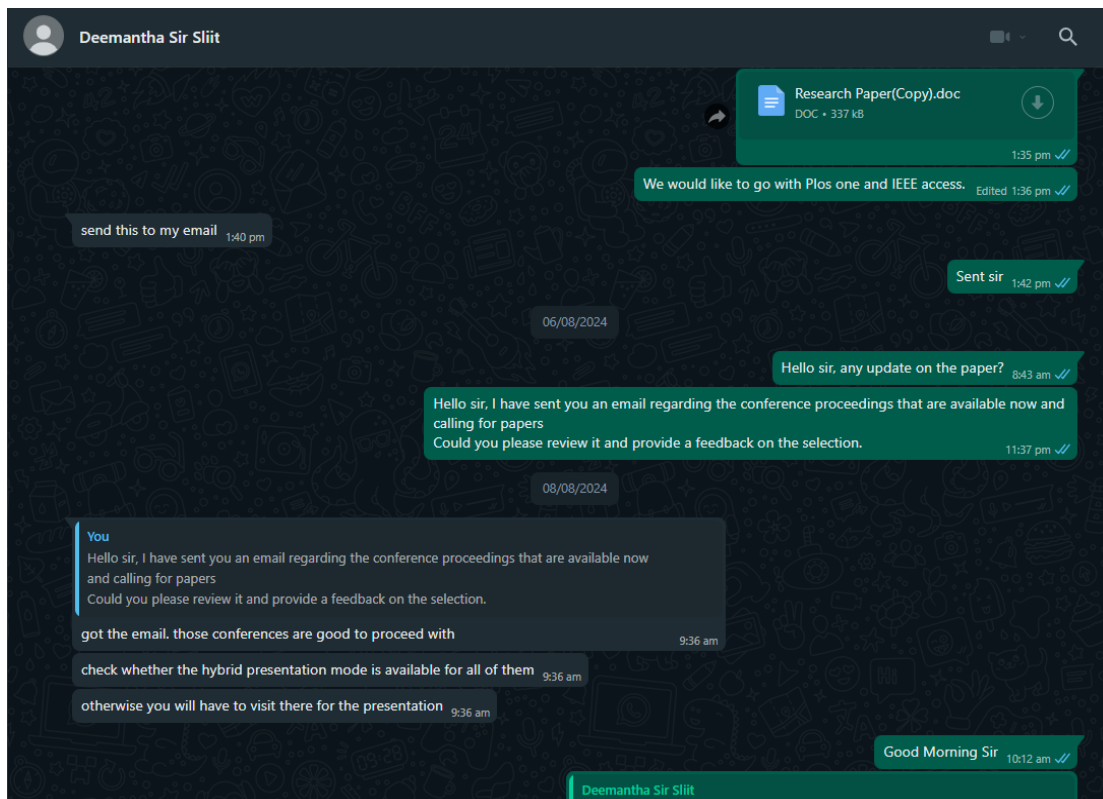



Figure 3: Communication with co-supervisor

### 3. Email Communications with Supervisors








Request for Feedback on Conference Paper Submissions




Karandawala D N it21023514

To: Chethana Liyanapathirana

Cc: Deemantha Siriwardana



Tue 06/08/2024 23:09



Conference Publication list.xlsx


12 KB

Dear Ma'am/Sir,

Attached, you will find a document listing the current conferences open for paper submissions. I have highlighted a few conferences in green that I am considering for my paper submission.

Could you please review these selections and provide your feedback on whether I can proceed with submitting my paper to these conferences?








Thanks & regards,  
Devindi Karandawala.



Deemantha Siriwardana <deemantha.s@slit.lk>

To: Chethana Liyanapathirana

Cc: Karandawala D N it21023514



Thu 08/08/2024 15:33

**[EXTERNAL EMAIL] This email has been received from an external source – please review before actioning, clicking on links, or opening attachments.**

Dear Madam


The following conference is found to be Scopus Indexed.

- IEEE 15th Annual Ubiquitous Computing, Electronics & Mobile Communication Conference (UEMCON)

Following conferences are indexed in IEEE Xplore and might have a chance of indexed in Scopus. But specific information could not be found.








- IEEE International Conference on Internet of Things and Intelligence System (IoTIS 2024);
- International Conference on System Reliability and Safety (ICSRs 2024)
- IEEE International Conference on Social Networks Analysis, Management and Security
- International Women in Engineering (WIE) Conference on Electrical and Computer Engineering

Research Paper




Karandawala D N it21023514

To: Chethana Liyanapathirana



Mon 05/08/2024 11:25




Research Paper(Copy).doc


337 KB

Dear Ma'am,

Please find the attached Research paper. We are seeking your valuable feedback on this.

Thanks & regards,  
Devindi Karandawala.

 Reply

 Forward



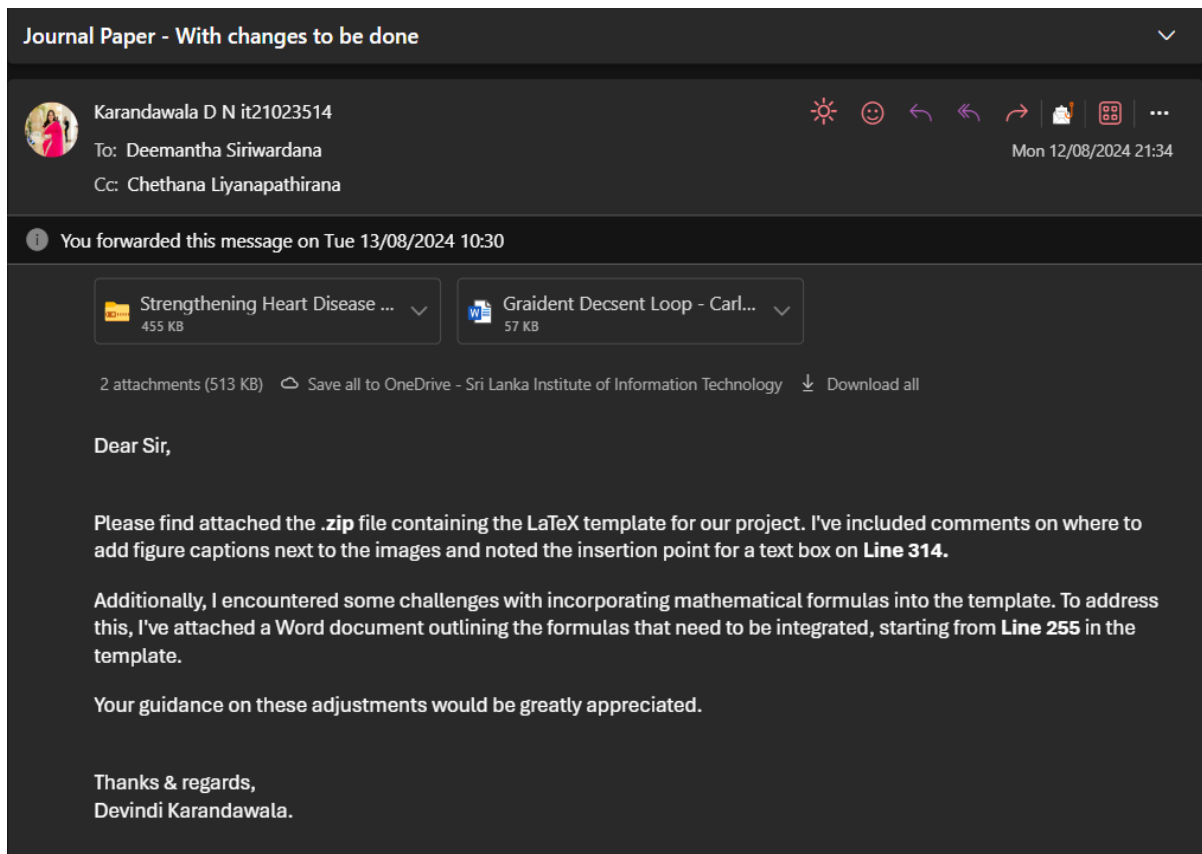
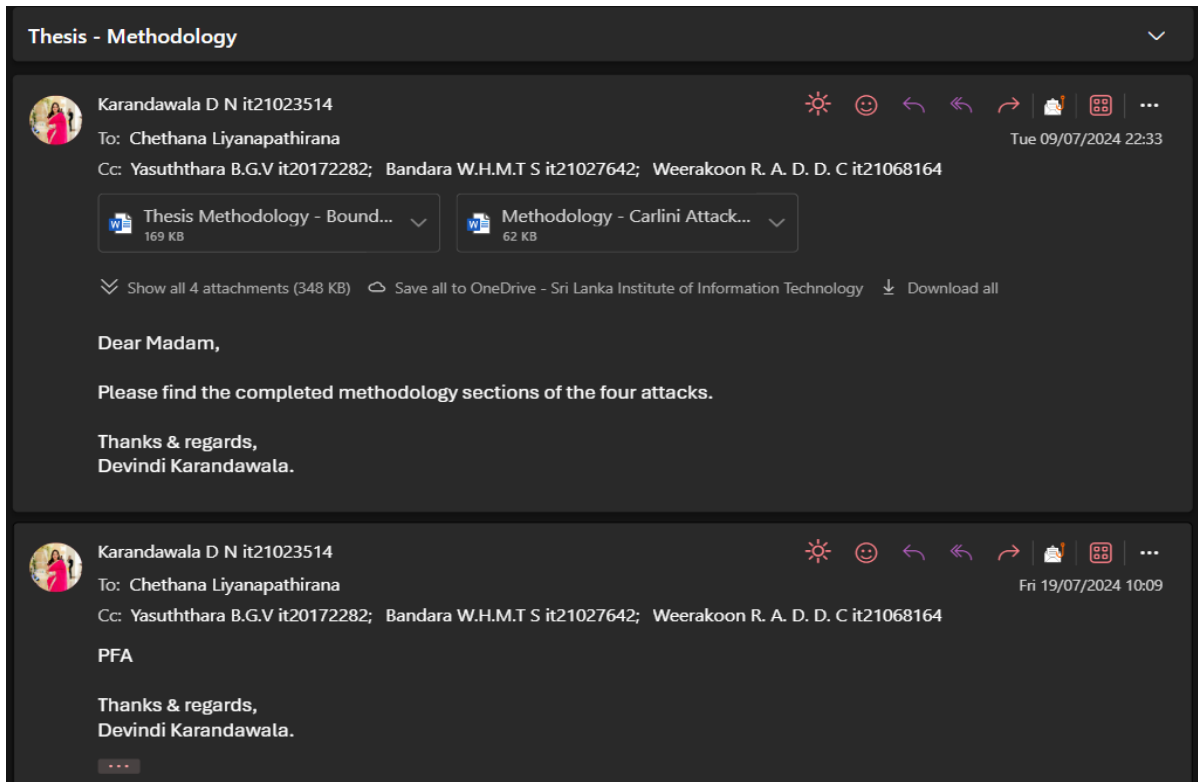


Figure 4: Email communications with supervisors

## 4. Microsoft Planner

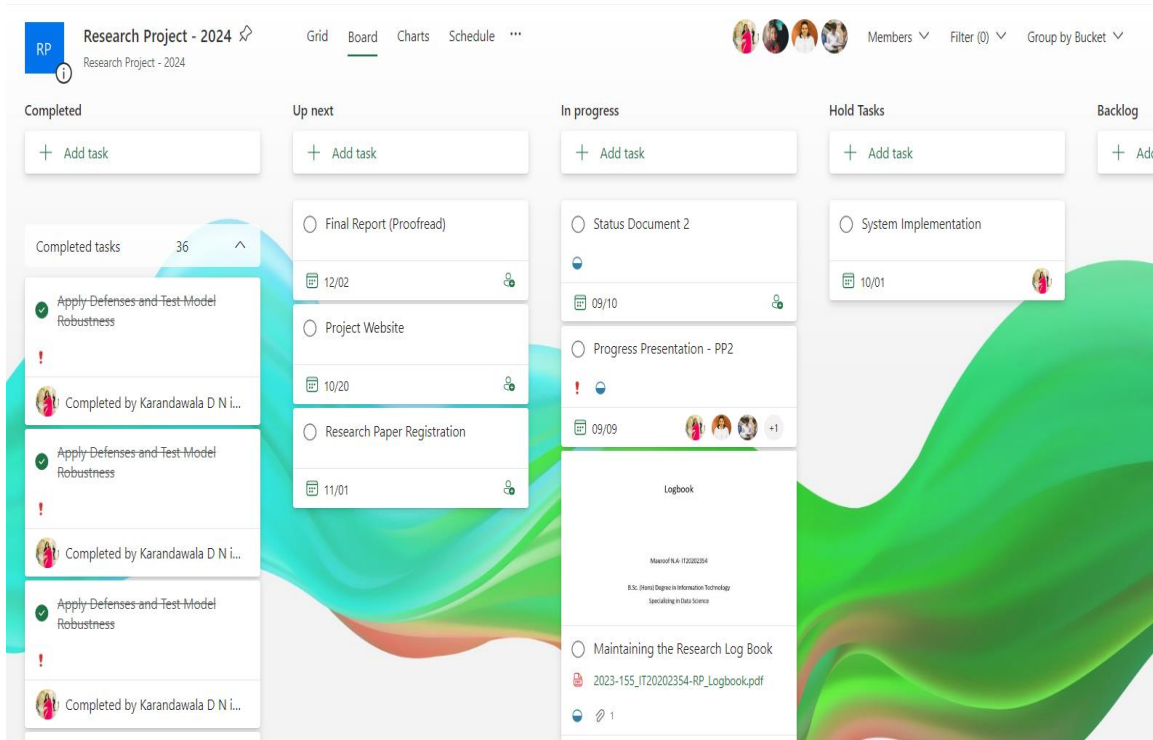


Figure 5: MS Project Planner

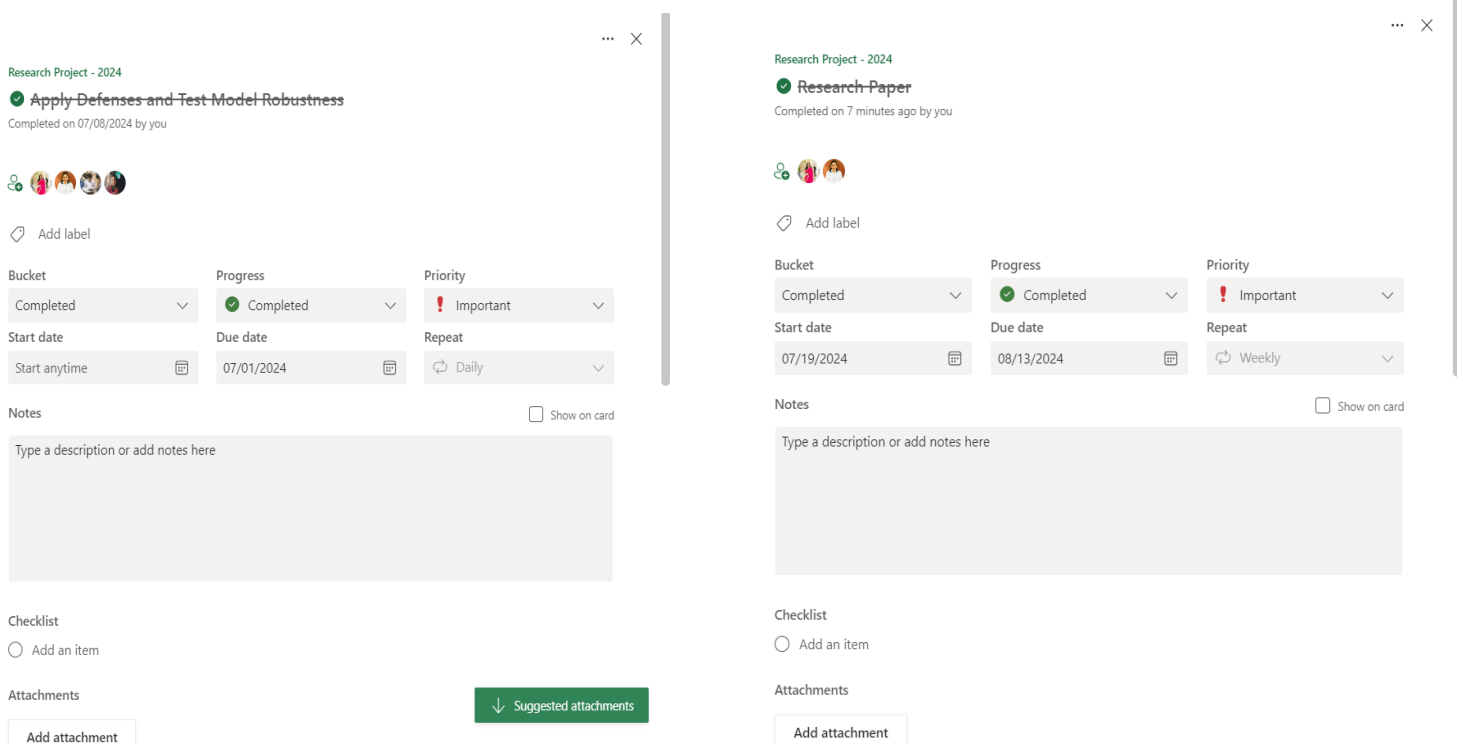


Figure 9: MS Project Planner

<div> <div> <div>RP</div> <div>Research Project - 2024</div> </div> <div> <div>Grid</div> <div>Board</div> <div>Charts</div> <div>Schedule</div> <div>...</div> </div> </div> <div> <div> <div>Members</div> <div> <div></div> <div></div> <div></div> <div></div> </div> </div> </div>						
Title	Assignment	Start date	Due date	Bucket	Progress	Priority
✓ Apply Defenses and Test Model Robustness	<div></div>		7/1/2024	Completed	✓ Completed	! Important
✓ Apply Defenses and Test Model Robustness	<div></div>		7/1/2024	Completed	✓ Completed	! Important
✓ Apply Defenses and Test Model Robustness	<div></div>		7/1/2024	Completed	✓ Completed	! Important
✓ Model 2 building and testing	<div></div>	5/18/2024	6/30/2024	Completed	✓ Completed	! Important
✓ Model 2 building and testing	<div></div>	5/19/2024	6/30/2024	Completed	✓ Completed	! Important
✓ Model 2 building and testing	<div></div>	5/20/2024	7/1/2024	Completed	✓ Completed	! Important
✓ Model 2 building and testing	<div></div>	5/21/2024	7/2/2024	Completed	✓ Completed	! Important
✓ Model 2 building and testing	<div></div>	5/22/2024	6/30/2024	Completed	✓ Completed	! Important
✓ Model 2 building and testing	<div></div>	5/23/2024	6/30/2024	Completed	✓ Completed	! Important
✓ Apply Defenses and Test Model Robustness	<div></div>		7/1/2024	Completed	✓ Completed	! Important
✓ Apply Defenses and Test Model Robustness	<div></div>		7/30/2024	Completed	✓ Completed	! Important
✓ Model 2 building and testing	<div></div>	5/24/2024	7/5/2024	Completed	✓ Completed	! Important
✓ Model 2 building and testing	<div></div>	5/25/2024	7/6/2024	Completed	✓ Completed	! Important
✓ Model 2 building and testing	<div></div>	5/26/2024	7/5/2024	Completed	✓ Completed	! Important
✓ Final Reports	<div></div>	7/4/2024	8/23/2024	Completed	✓ Completed	! Important
✓ Research Paper	<div></div>	7/19/2024	8/13/2024	Completed	✓ Completed	! Important
<div> <div>+</div> <div>Add new task</div> </div>						

Figure 10: Completed tasks

## 5. Gantt Chart

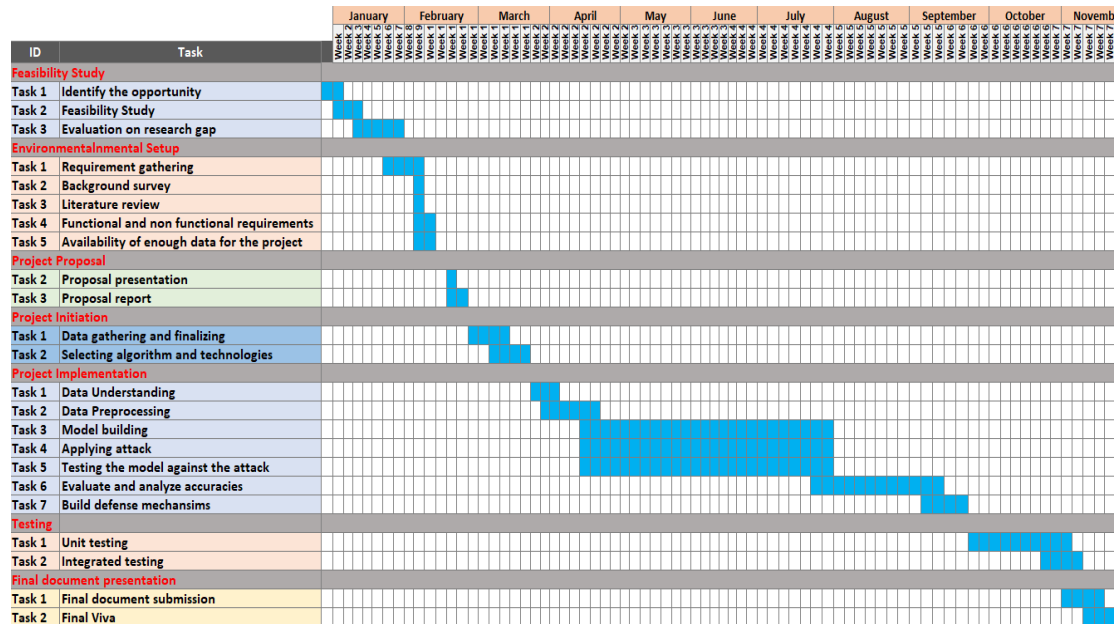


Figure 11 Gantt chart

## 6. Work Breakdown Structure

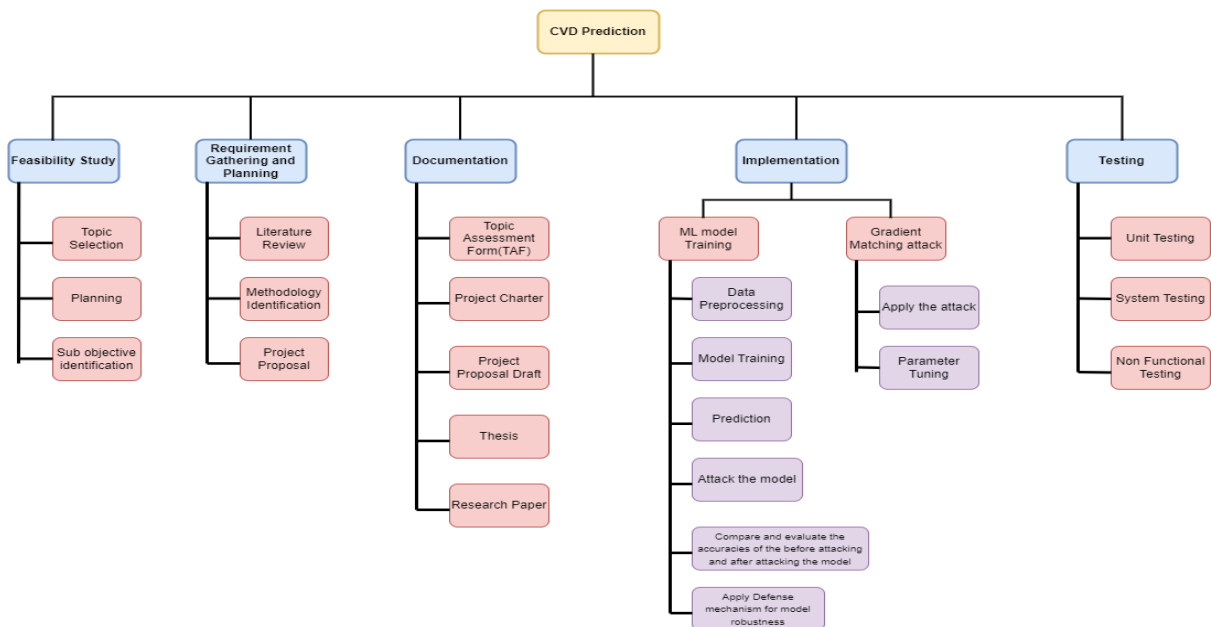


Figure 12: WBS

## 7. GitLab Commits

The screenshot shows the GitLab web interface for a repository named 'R24-102'. The left sidebar contains navigation links for Project overview, Repository, Files, Commits, Branches, Tags, Contributors, Graph, Compare, Issues (0), Merge Requests (0), CI / CD, and Operations. The main content area displays a table of commits for the 'Brendel\_and\_bethge\_defensive\_distillation' project, authored by Savindhya Bandara 10 hours ago. The table has three columns: Name, Last commit, and Last update.

Name	Last commit	Last update
Boundary_Attack.ipynb	Initial commit	4 months ago
Boundary_Attack_Defense_Adversarial_Trainin...	Boundary attack defense - Adversarial Training	1 day ago
Boundary_Attack_Defense_Ensemble_Model.ip...	Boundary attack defense - Ensemble Model	1 day ago
Brendel_and_Bethge_Attack.ipynb	Brendel and Bethge Attack	4 months ago
Brendel_and_bethge_defensive_distillation.py	Brendel_and_bethge_defensive_distillation	10 hours ago
Carlini_Attack.ipynb	Carlini_Attack	4 months ago
Carlini_Wagner_Attack_Defense_Adversarial_tr...	Carlini & Wagner Attack Defense Adversarial Training	22 hours ago
Final_1D_CNN_Model.ipynb	Final 1D CNN model	4 months ago
Final_Data_Preprocessing.ipynb	Initial commit	4 months ago
PGD_attack.ipynb	PGD attack code	4 months ago
README.md	Add README.md	4 months ago
Stochastic_Distillation.ipynb	PGD Attack Defense Strategy - Stochastic Distillation	10 hours ago

The screenshot shows the 'Commits' page for the 'R24-102' repository. The page is filtered by the 'master' branch and the 'r24-102' commit. The 'Filter by commit message' dropdown is set to 'Filter by commit message'. The commits are listed in chronological order, with the most recent at the top. The commits are grouped by date: 08 Sep, 2024 (2 commits), 07 Sep, 2024 (1 commit), 06 Sep, 2024 (2 commits), and 04 May, 2024 (3 commits).

Commit Message	Author	Time	Commit ID	Actions
Brendel_and_bethge_defensive_distillation	Savindhya Bandara	10 hours ago	726d1656	🔗 📄
PGD Attack Defense Strategy - Stochastic Distillation	Devmini Chethika Weerakoon	10 hours ago	8f15763b	🔗 📄
Carlini & Wagner Attack Defense Adversarial Training	Vihangi Yasuthara	22 hours ago	2ed1dd31	🔗 📄
Boundary attack defense - Adversarial Training	Devindi Navodya Karandawala	1 day ago	8fe57739	🔗 📄
Boundary attack defense - Ensemble Model	Devindi Navodya Karandawala	1 day ago	b24db083	🔗 📄
Final 1D CNN model	Devindi Navodya Karandawala	4 months ago	8d877d7f	🔗 📄
Delete 1D_CNN_Model - Test.ipynb	Devindi Navodya Karandawala	4 months ago	b4e7d56a	🔗 📄
Delete Final_1D_CNN_Model.ipynb	Devindi Navodya Karandawala	4 months ago	76f2beed	🔗 📄

Figure 13 GitLab commits