FACULTY OF COMPUTING

STATUS DOCUMENT 1

"TeaBot" – Tea plantation preservation using an intelligent robot.

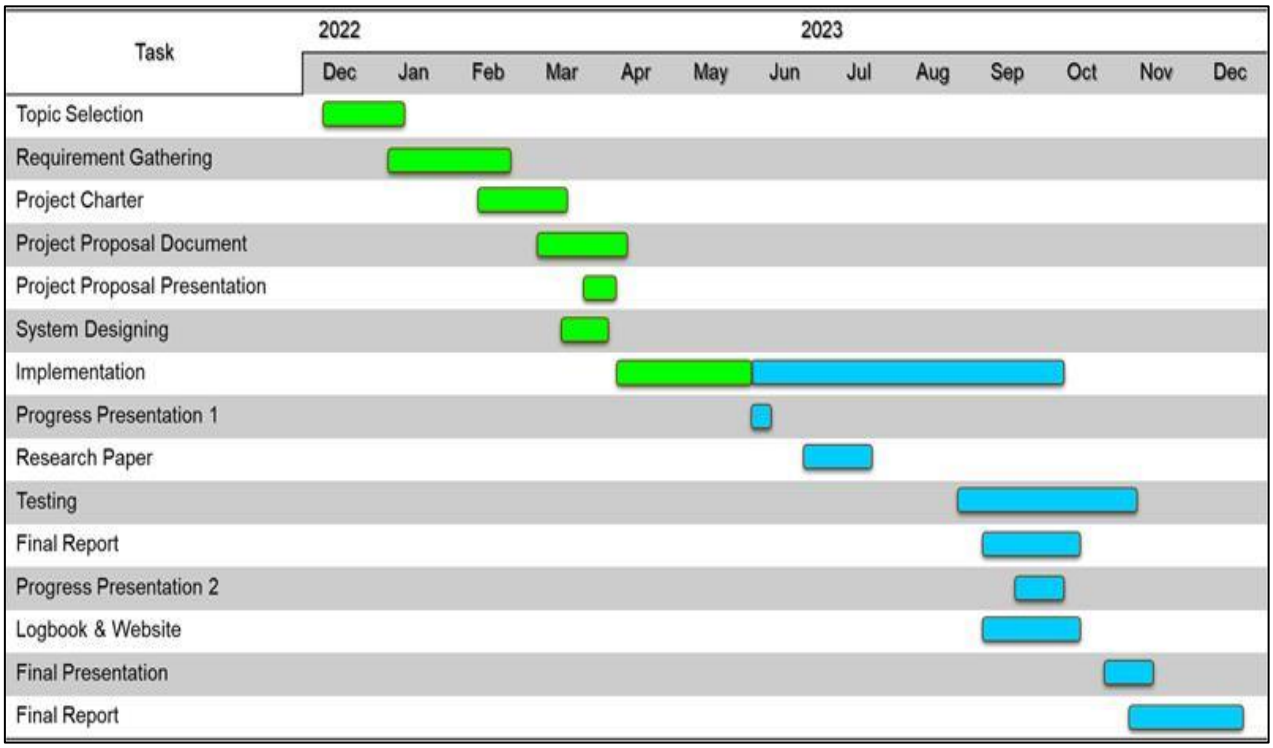
STUDENT NAME: PREMATHILAKE H.T.M.

STUDENT NUMBER: IT20265410

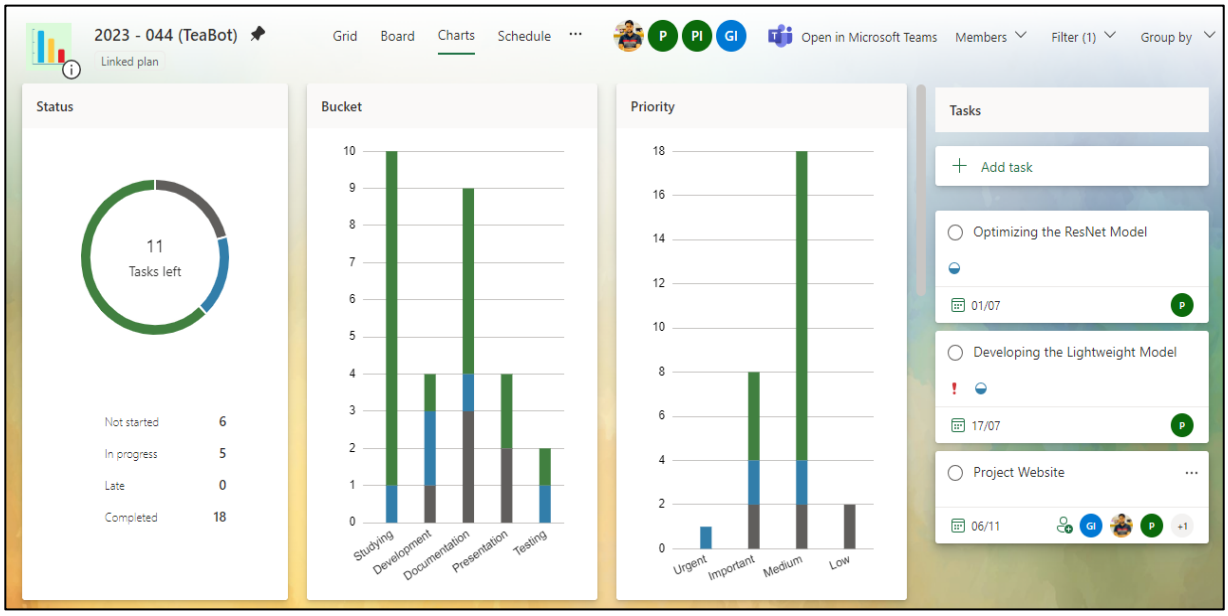
GROUP ID: 2023-044

TABLE OF CONTENTS

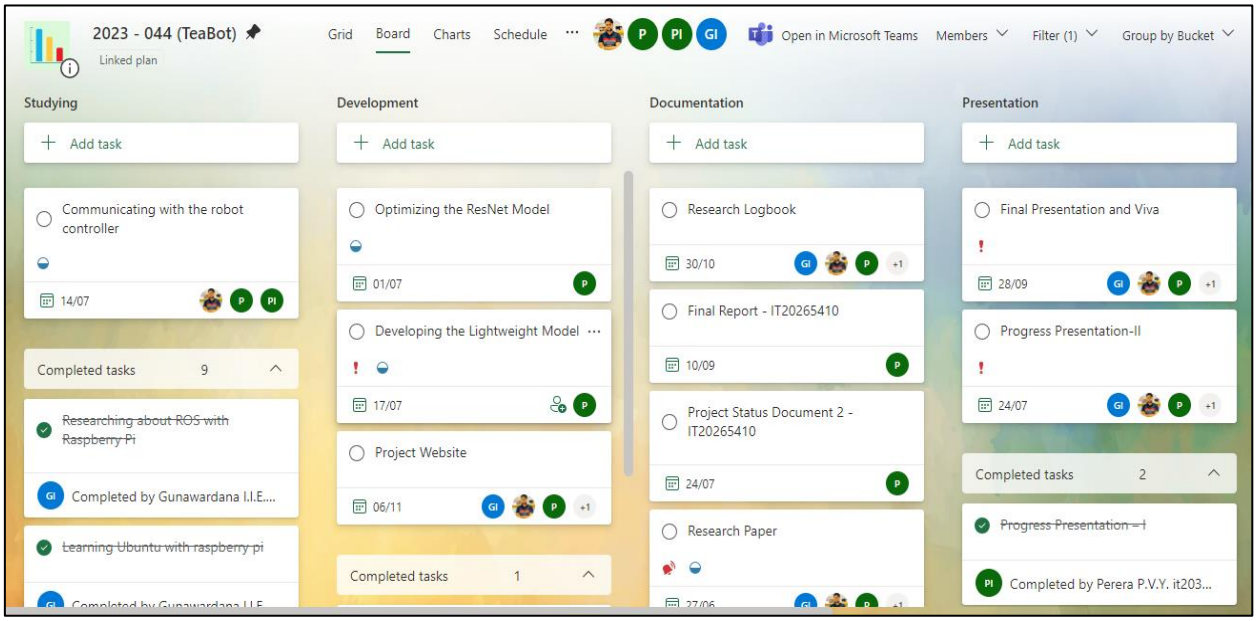
1 GANNT CHART

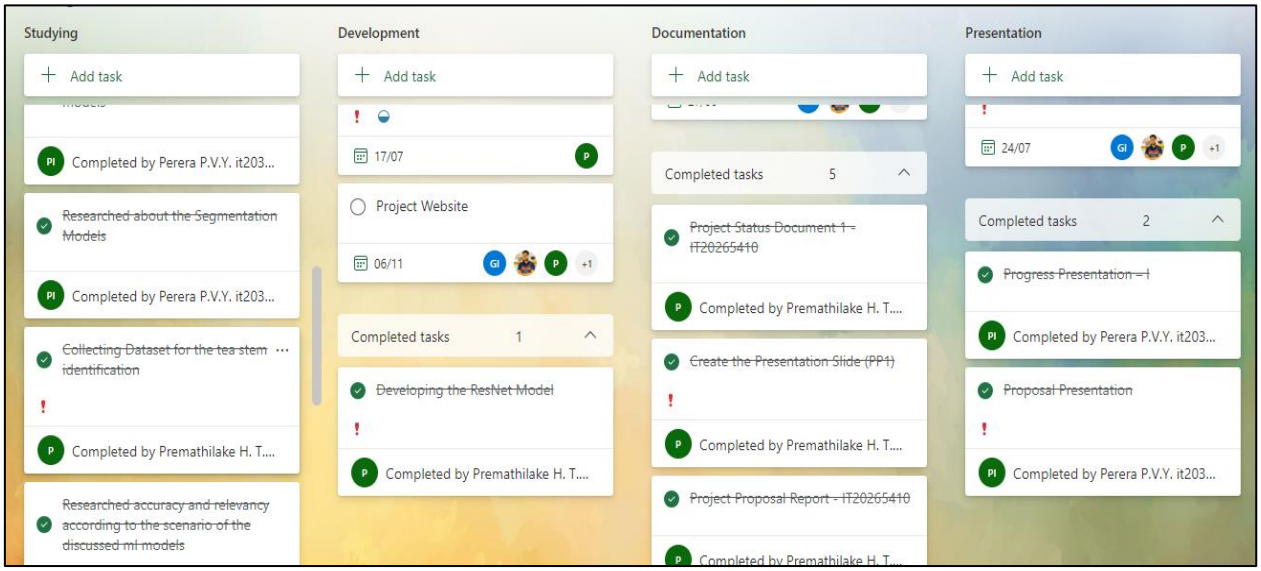


2 PROJECT VIEWS MS PLANNER

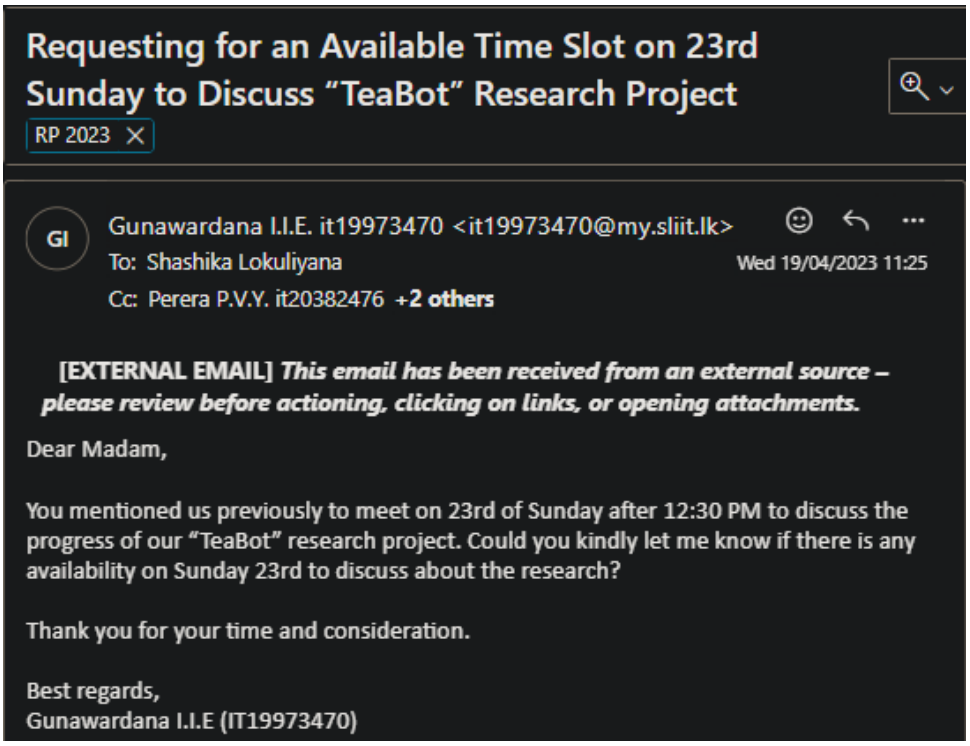


3 WORK BREAK DOWN STRUCTURE MS PLANNER





4 EMAILS, MEETINGS WITH SUPERVISOR, CO-SUPERVISOR



Requesting for an Available Time Slot on 23rd Sunday to Discuss "TeaBot" Research Project

RP 2023

GI Gunawardana I.I.E. it19973470 <it19973470@my.sliit.lk>

To: Shashika Lokuliyana

Wed 19/04/2023 11:25

Cc: Perera P.V.Y. it20382476 **+2 others**

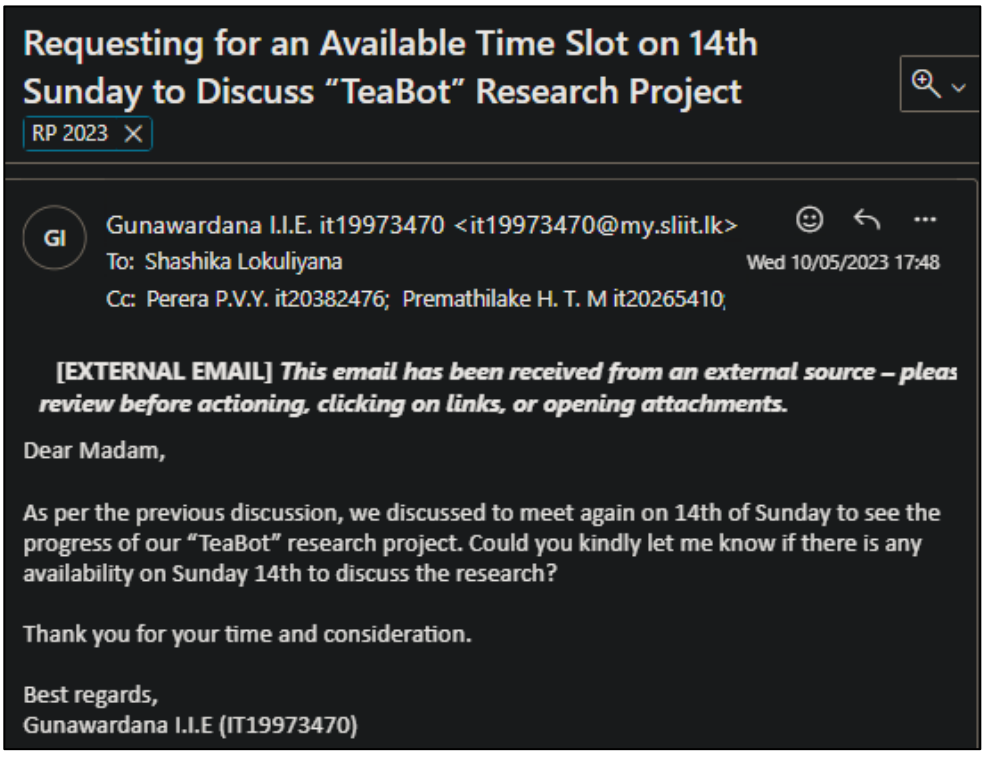
[EXTERNAL EMAIL] ***This email has been received from an external source – please review before actioning, clicking on links, or opening attachments.***

Dear Madam,

You mentioned us previously to meet on 23rd of Sunday after 12:30 PM to discuss the progress of our "TeaBot" research project. Could you kindly let me know if there is any availability on Sunday 23rd to discuss about the research?

Thank you for your time and consideration.

Best regards,
Gunawardana I.I.E (IT19973470)



Requesting for an Available Time Slot on 14th Sunday to Discuss "TeaBot" Research Project

RP 2023

GI Gunawardana I.I.E. it19973470 <it19973470@my.sliit.lk>

To: Shashika Lokuliyana

Wed 10/05/2023 17:48

Cc: Perera P.V.Y. it20382476; Prematthilake H. T. M it20265410;

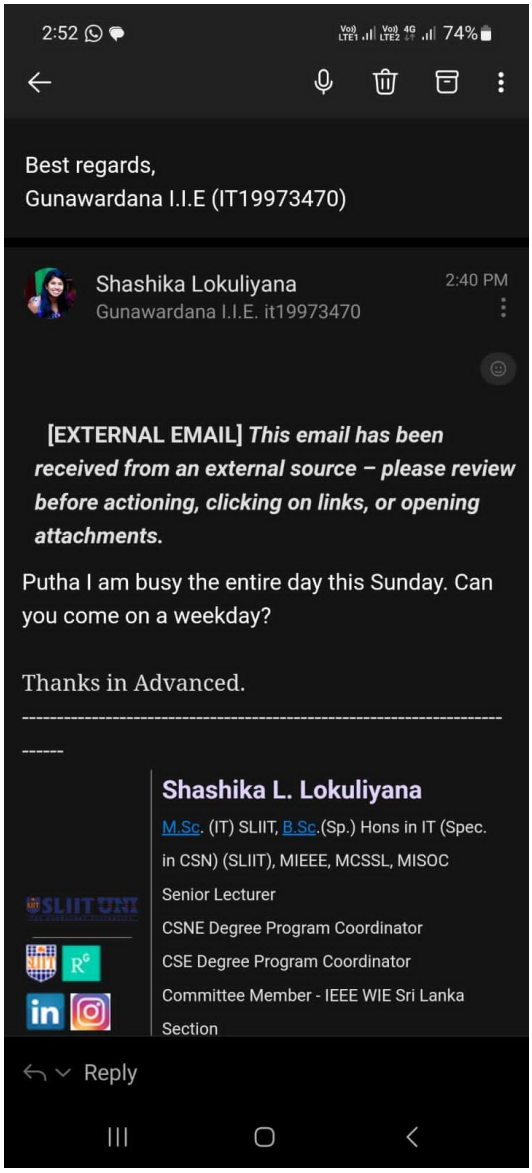
[EXTERNAL EMAIL] ***This email has been received from an external source – pleas review before actioning, clicking on links, or opening attachments.***

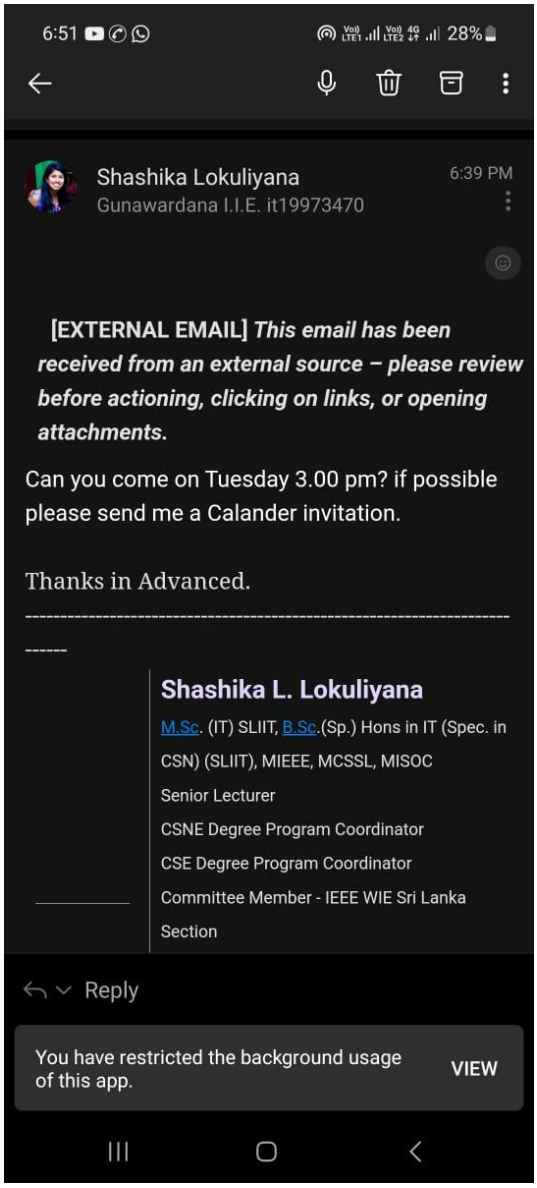
Dear Madam,

As per the previous discussion, we discussed to meet again on 14th of Sunday to see the progress of our "TeaBot" research project. Could you kindly let me know if there is any availability on Sunday 14th to discuss the research?

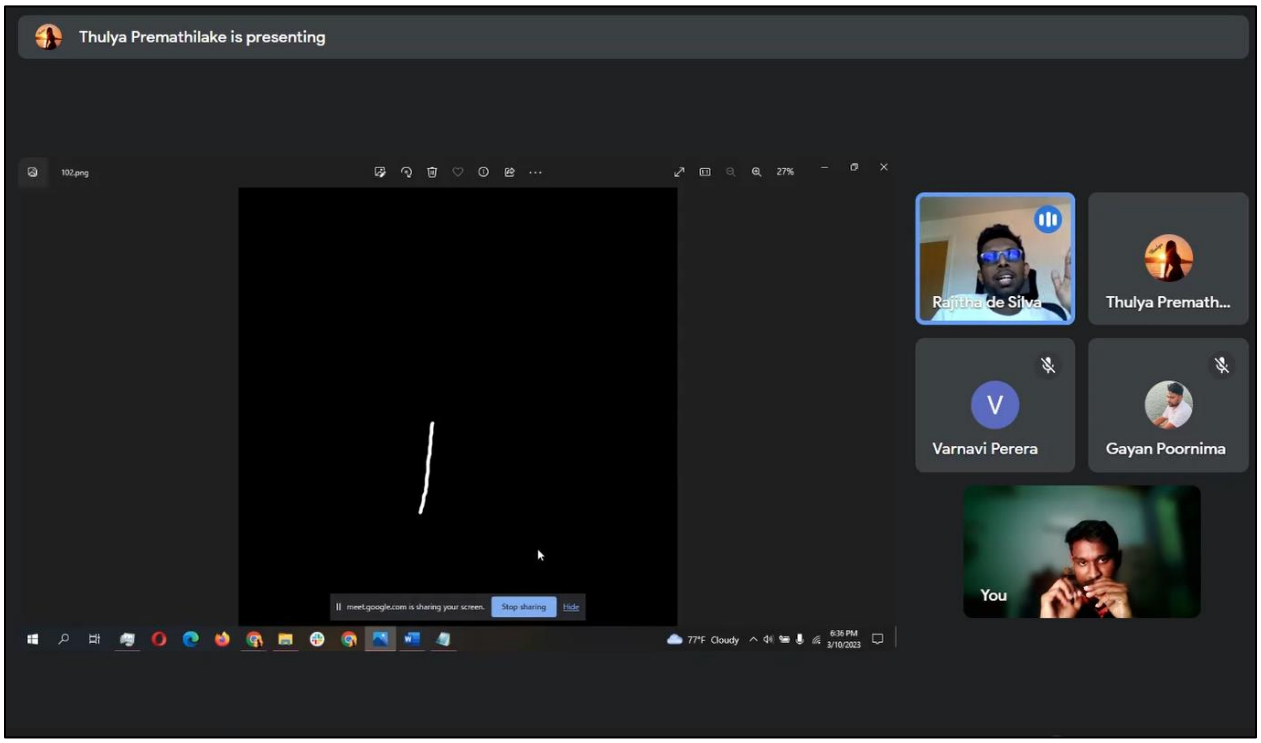
Thank you for your time and consideration.

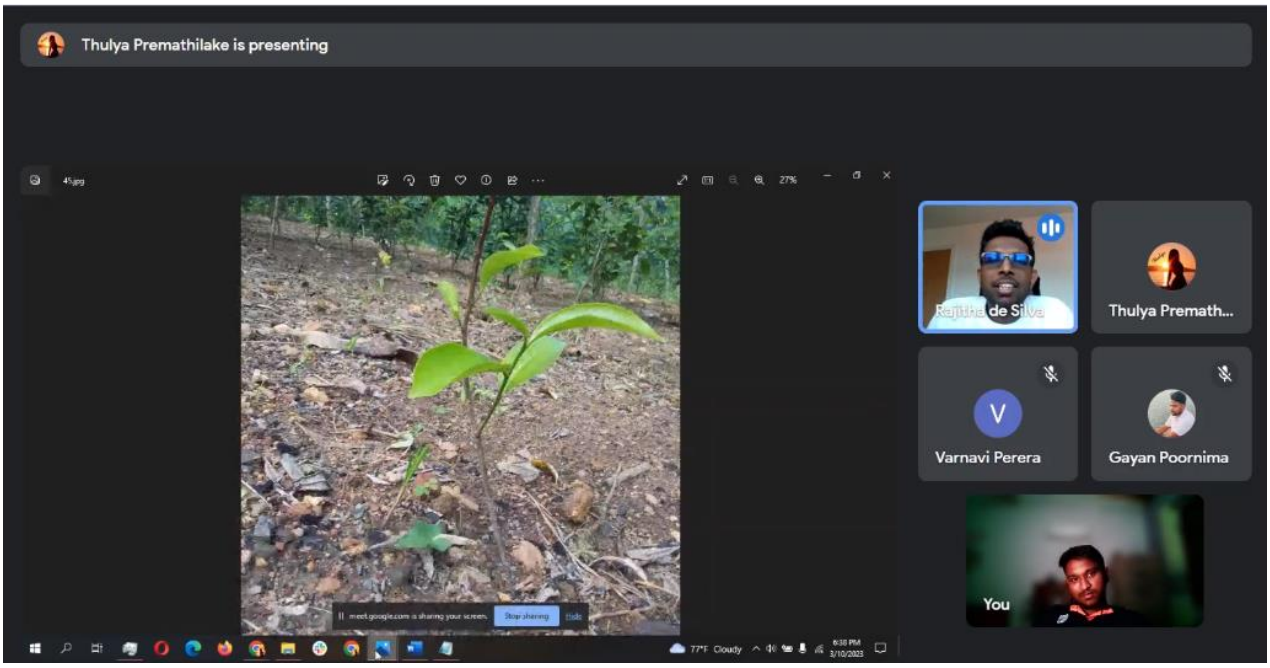
Best regards,
Gunawardana I.I.E (IT19973470)


2:52
74%
Best regards,
Gunawardana I.I.E (IT19973470)
Shashika Lokuliyana
Gunawardana I.I.E. it19973470
2:40 PM
[EXTERNAL EMAIL] This email has been received from an external source – please review before actioning, clicking on links, or opening attachments.
Putha I am busy the entire day this Sunday. Can you come on a weekday?
Thanks in Advanced.
Shashika L. Lokuliyana
M.Sc. (IT) SLIIT, B.Sc.(Sp.) Hons in IT (Spec. in CSN) (SLIIT), MIEEE, MCSSL, MISOC
Senior Lecturer
CSNE Degree Program Coordinator
CSE Degree Program Coordinator
Committee Member - IEEE WIE Sri Lanka Section
Reply

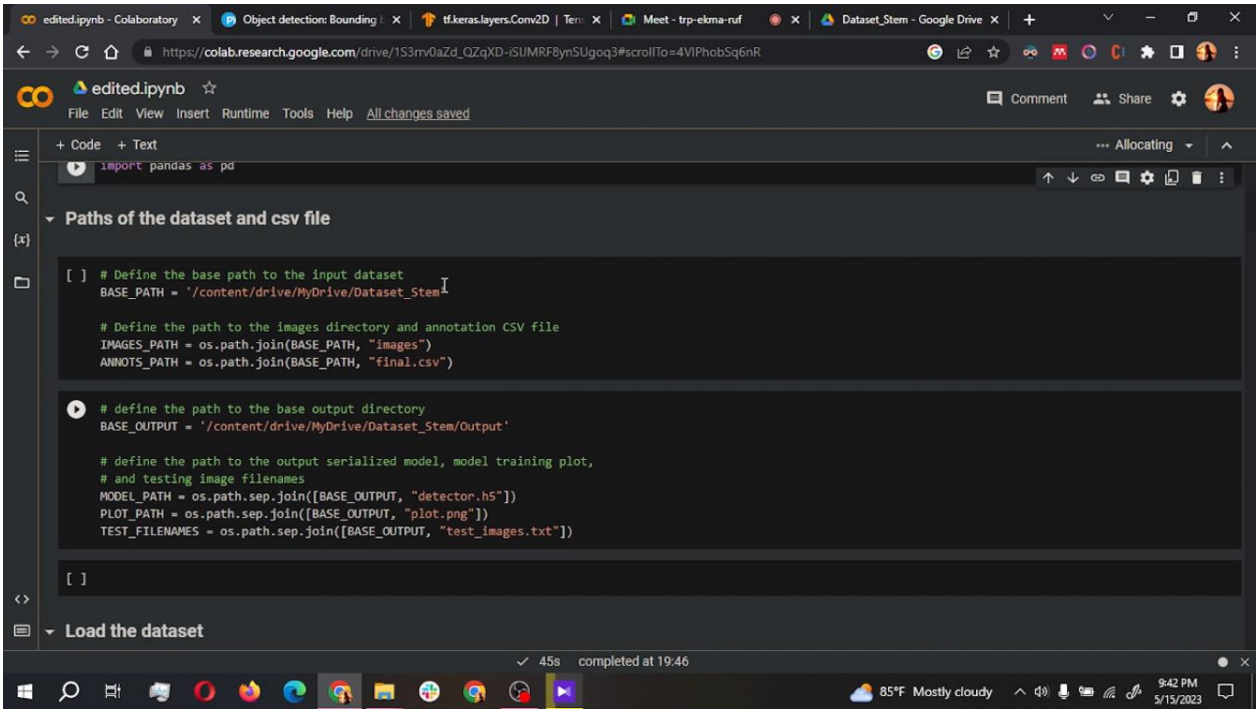

6:51
28%
Shashika Lokuliyana
Gunawardana I.I.E. it19973470
6:39 PM
[EXTERNAL EMAIL] This email has been received from an external source – please review before actioning, clicking on links, or opening attachments.
Can you come on Tuesday 3.00 pm? if possible please send me a Calander invitation.
Thanks in Advanced.
Shashika L. Lokuliyana
M.Sc. (IT) SLIIT, B.Sc.(Sp.) Hons in IT (Spec. in CSN) (SLIIT), MIEEE, MCSSL, MISOC
Senior Lecturer
CSNE Degree Program Coordinator
CSE Degree Program Coordinator
Committee Member - IEEE WIE Sri Lanka Section
Reply
You have restricted the background usage of this app.
VIEW

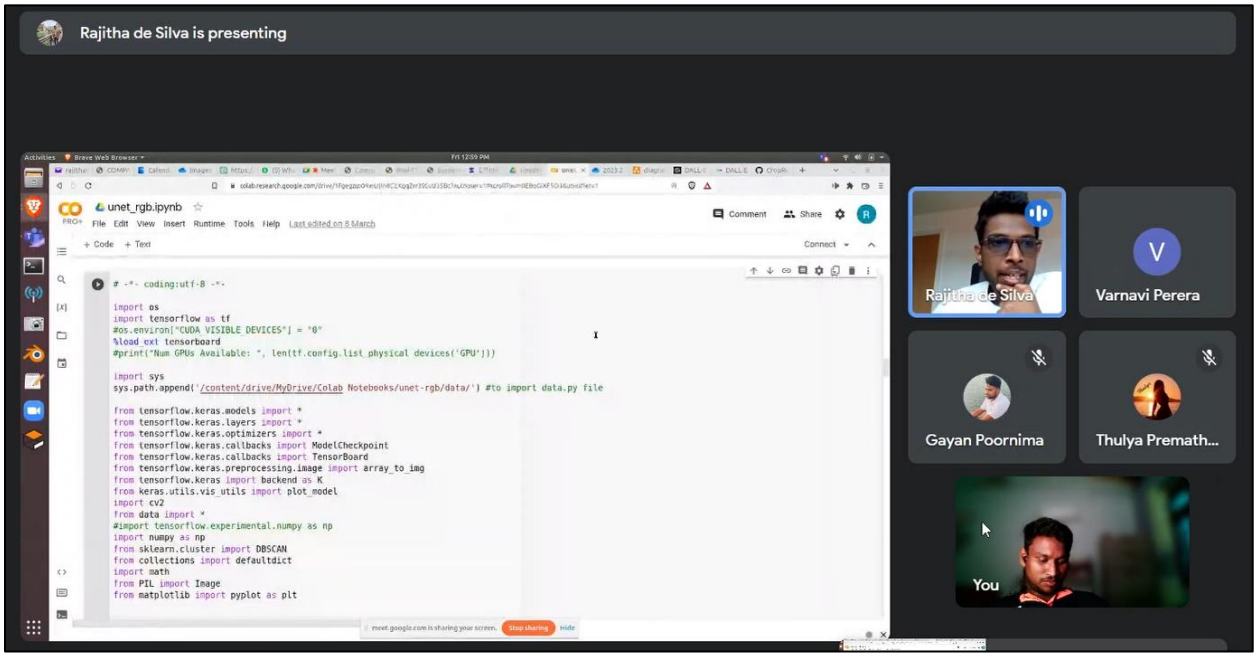
Screenshots of meetings about dataset collection, and data labeling methods for stem identification with external supervisor Dr Rajitha De Silva.



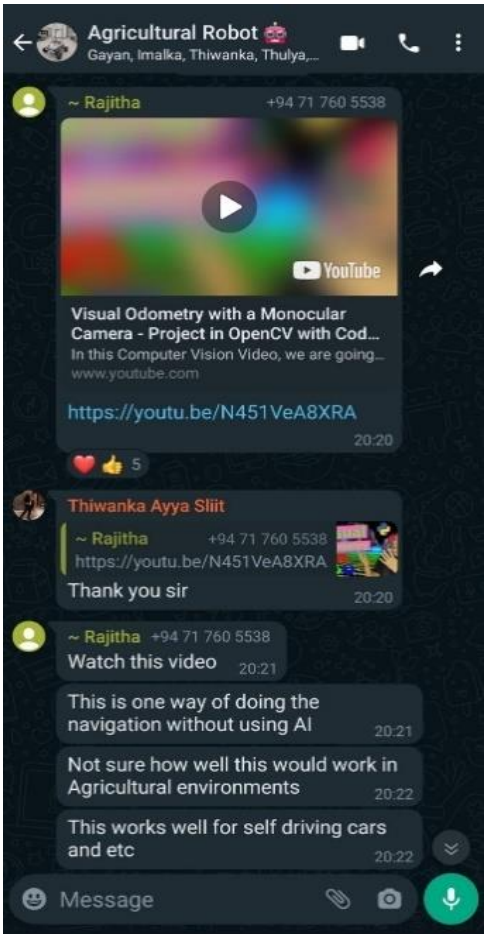


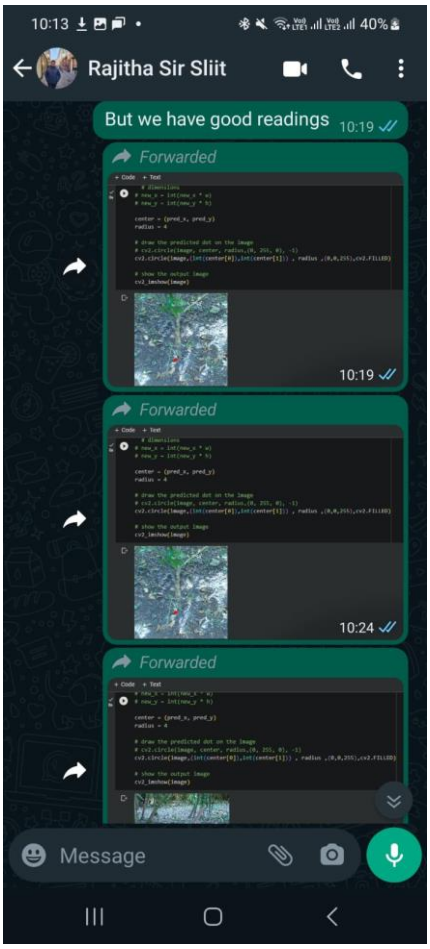
Discussions regarding model development.

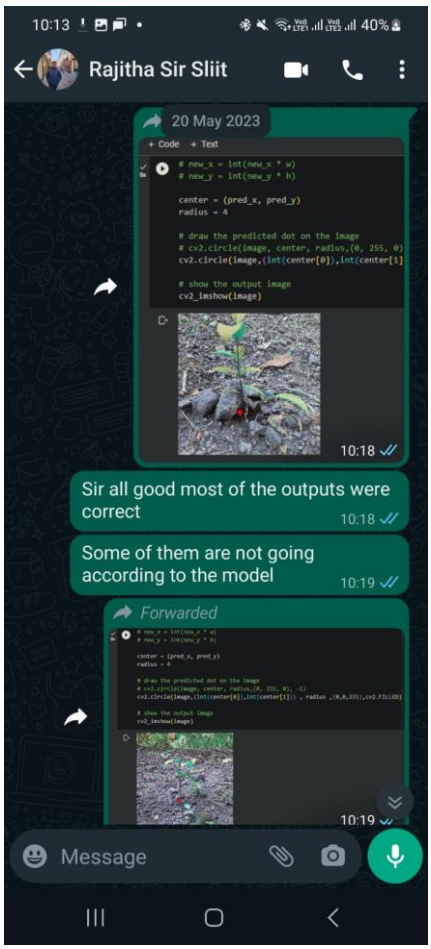


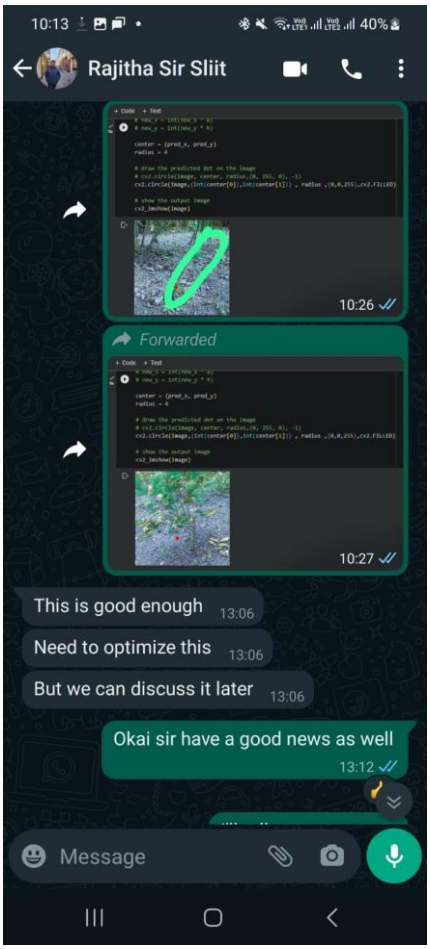


WhatsApp conversations with the external supervisor.

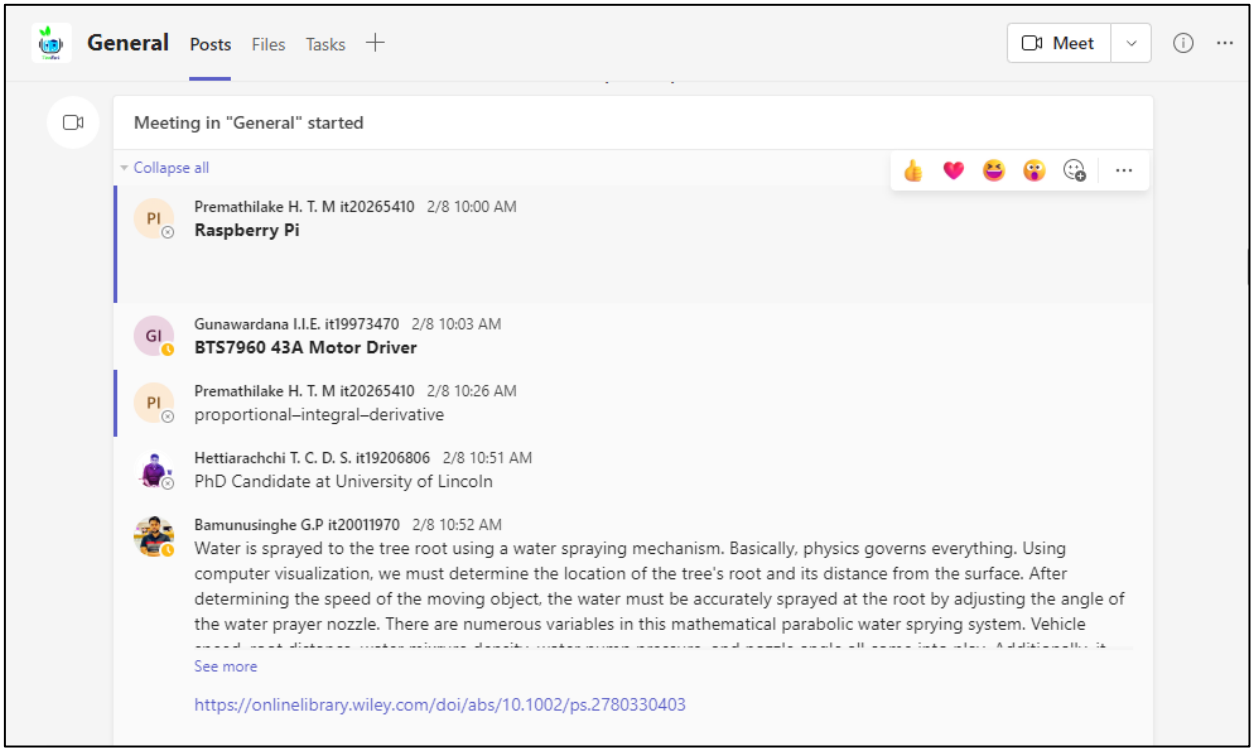


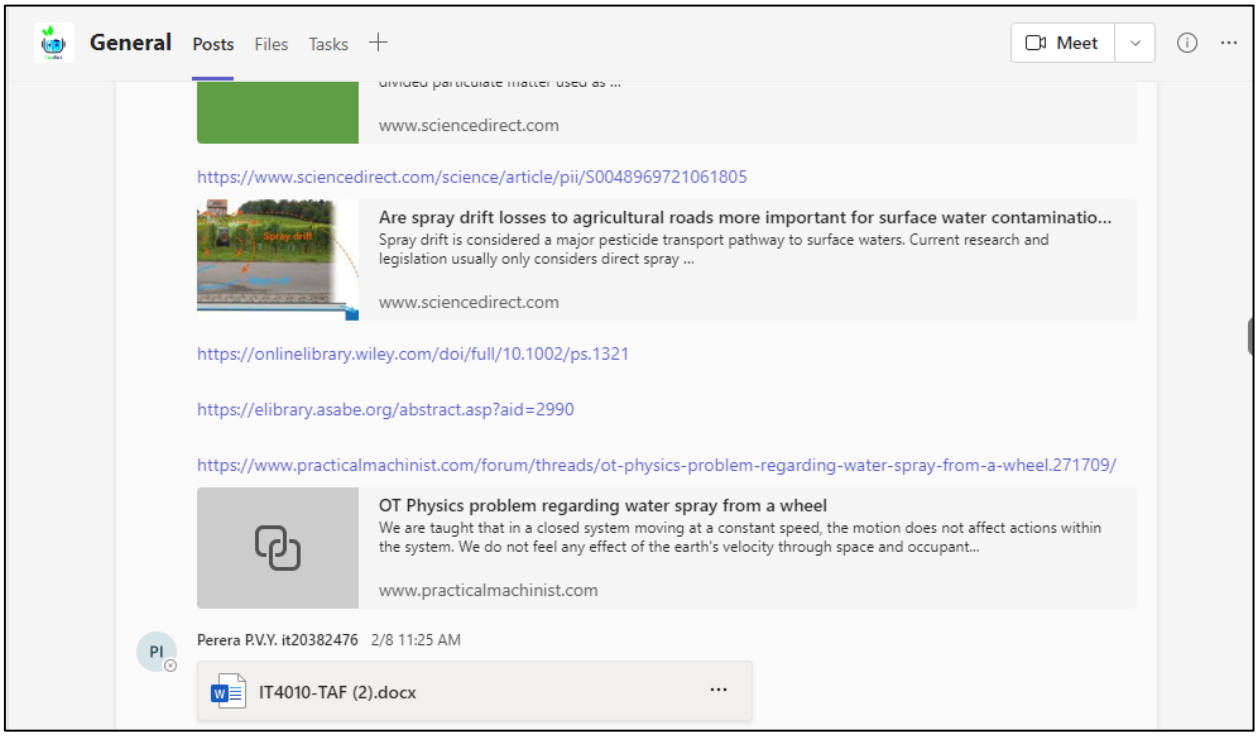

10:13
Rajitha Sir Sliit
But we have good readings 10:19
Forwarded
10:19
Forwarded
10:24
Forwarded
Message

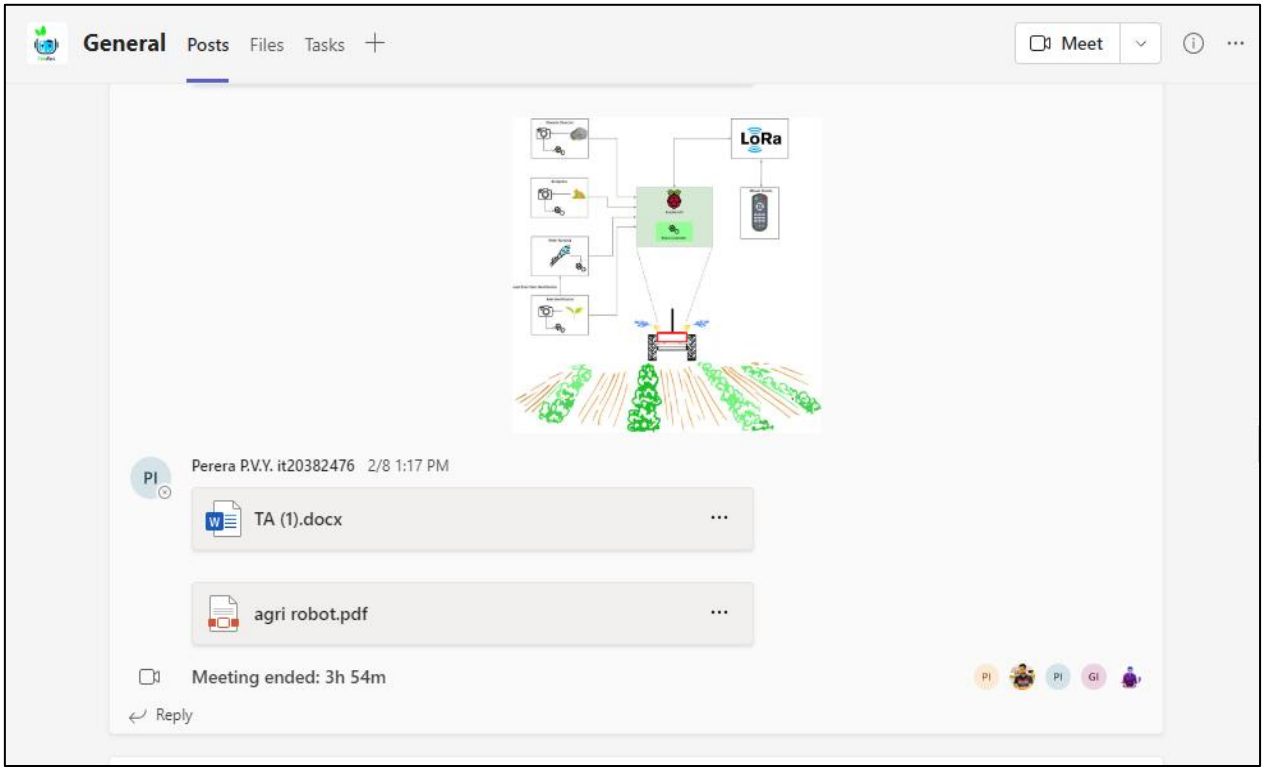

10:13
Rajitha Sir Sliit
20 May 2023
10:18
Sir all good most of the outputs were correct 10:18
Some of them are not going according to the model 10:19
Forwarded
10:19
Message

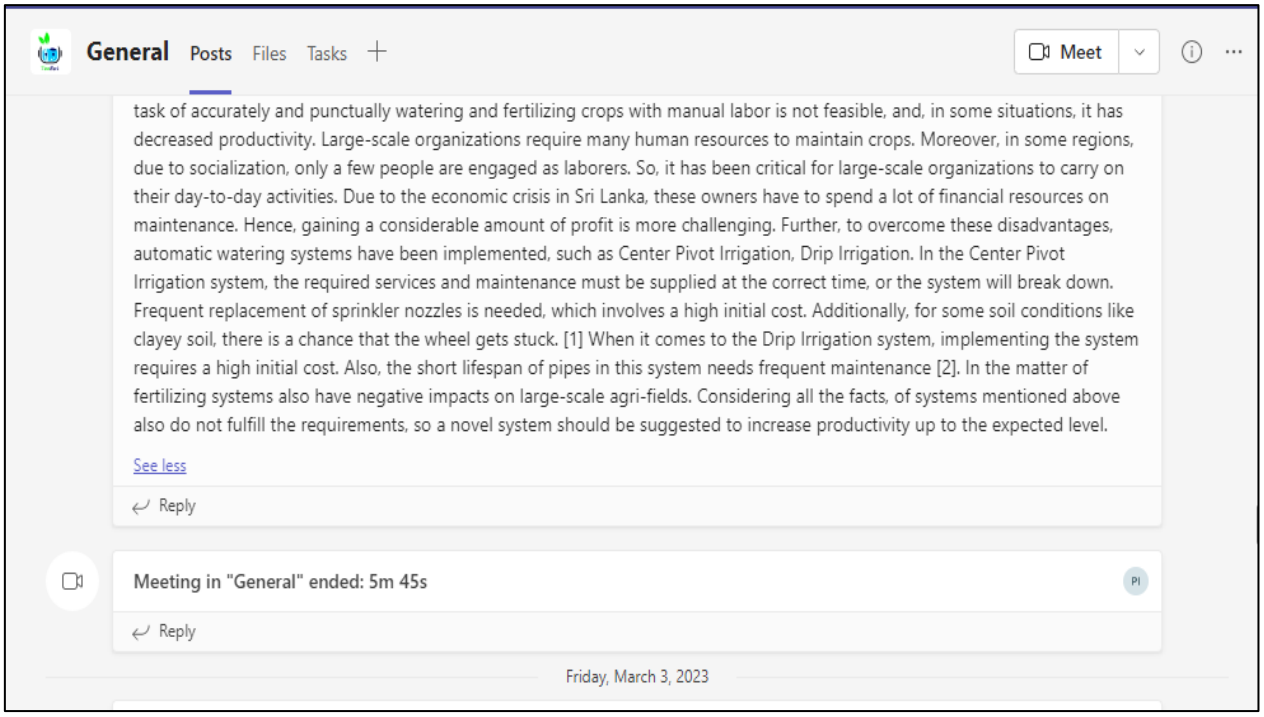

10:13
Rajitha Sir Sliit
10:26
Forwarded
10:27
This is good enough 13:06
Need to optimize this 13:06
But we can discuss it later 13:06
Okai sir have a good news as well 13:12
Message

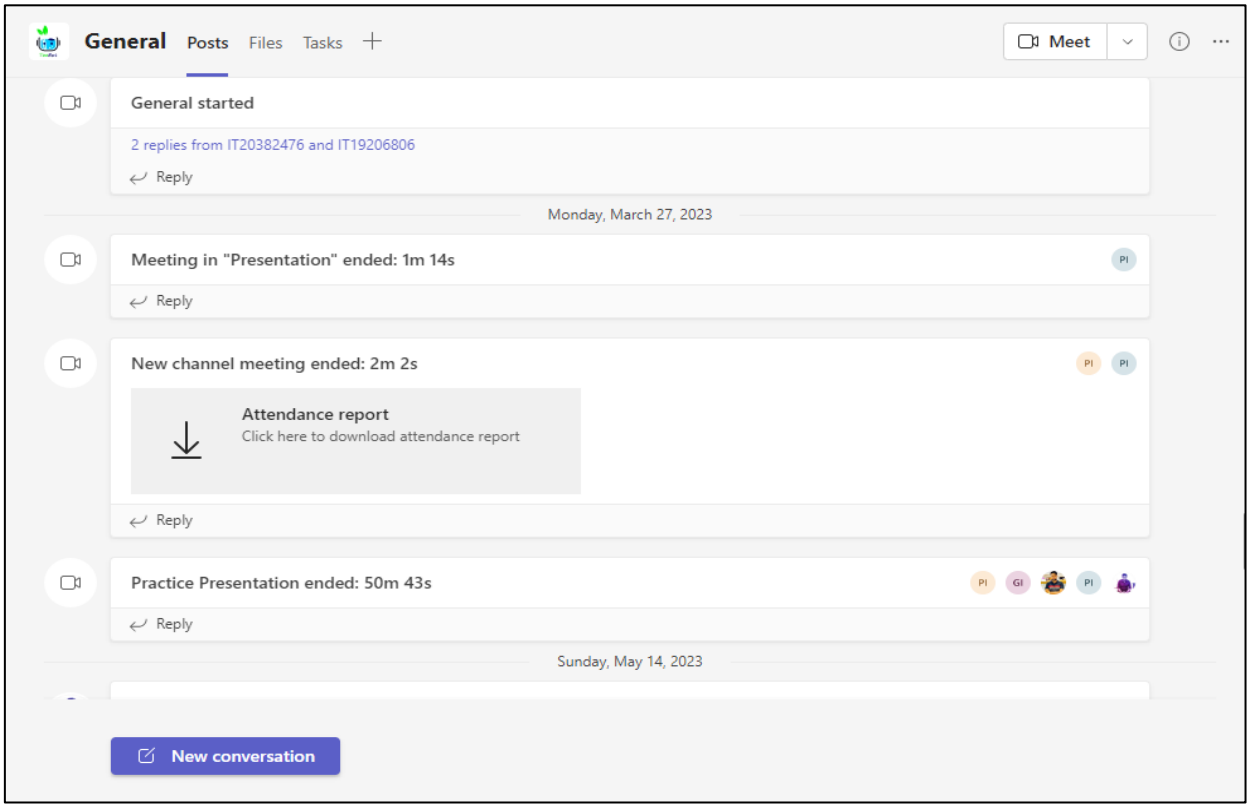
5 MS TEAMS AND CALLS

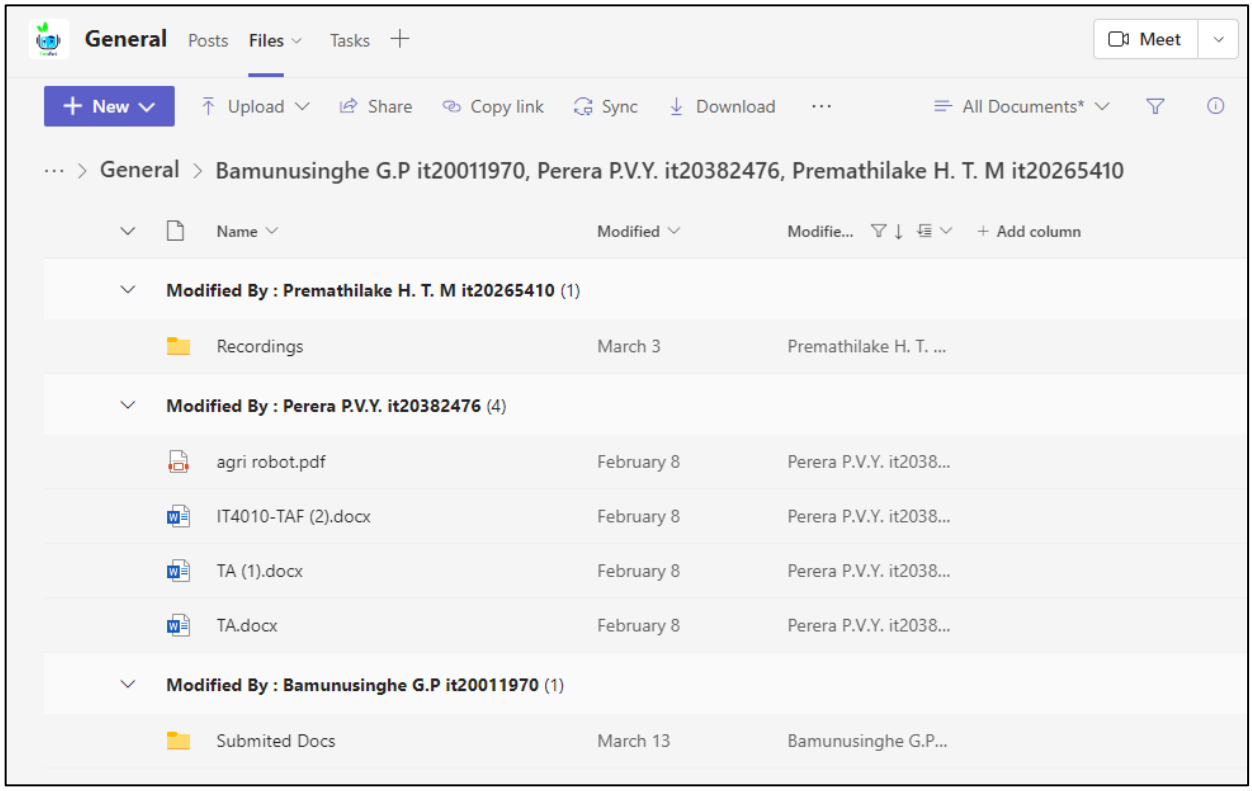




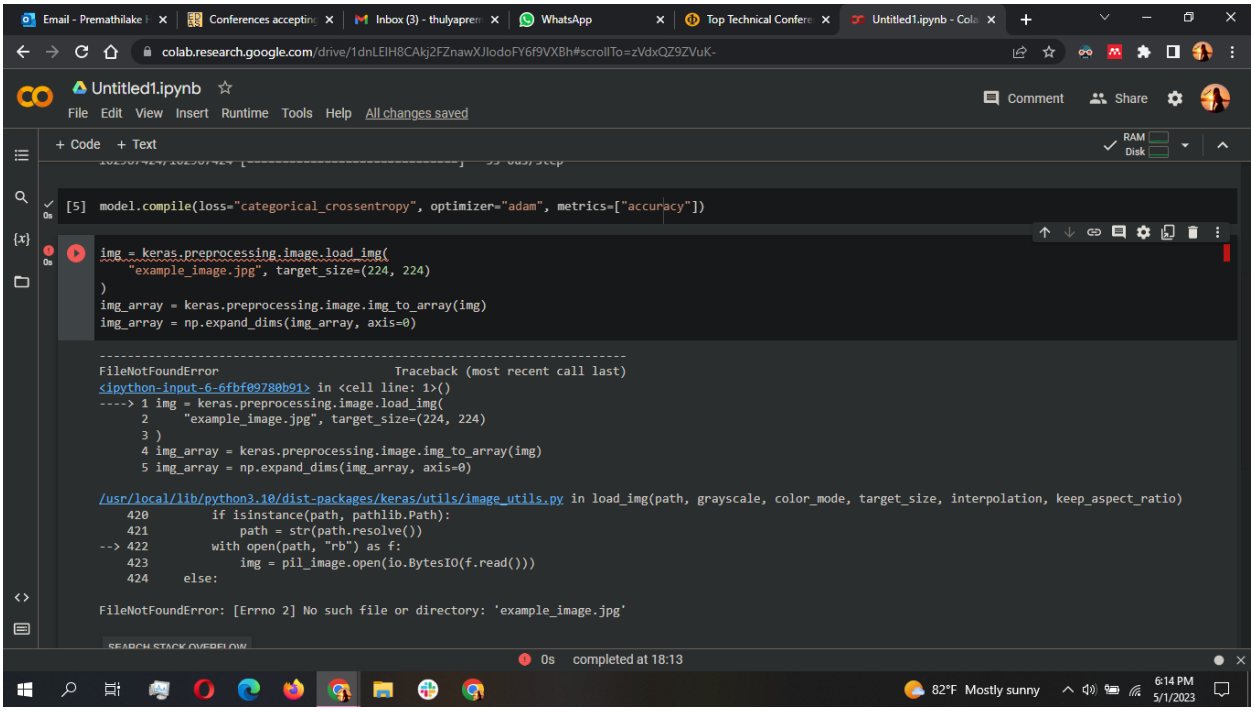

General
Posts
Files
Tasks
Meet
LoRa
Perera P.V.Y. it20382476 2/8 1:17 PM
TA (1).docx
agri robot.pdf
Meeting ended: 3h 54m
Reply

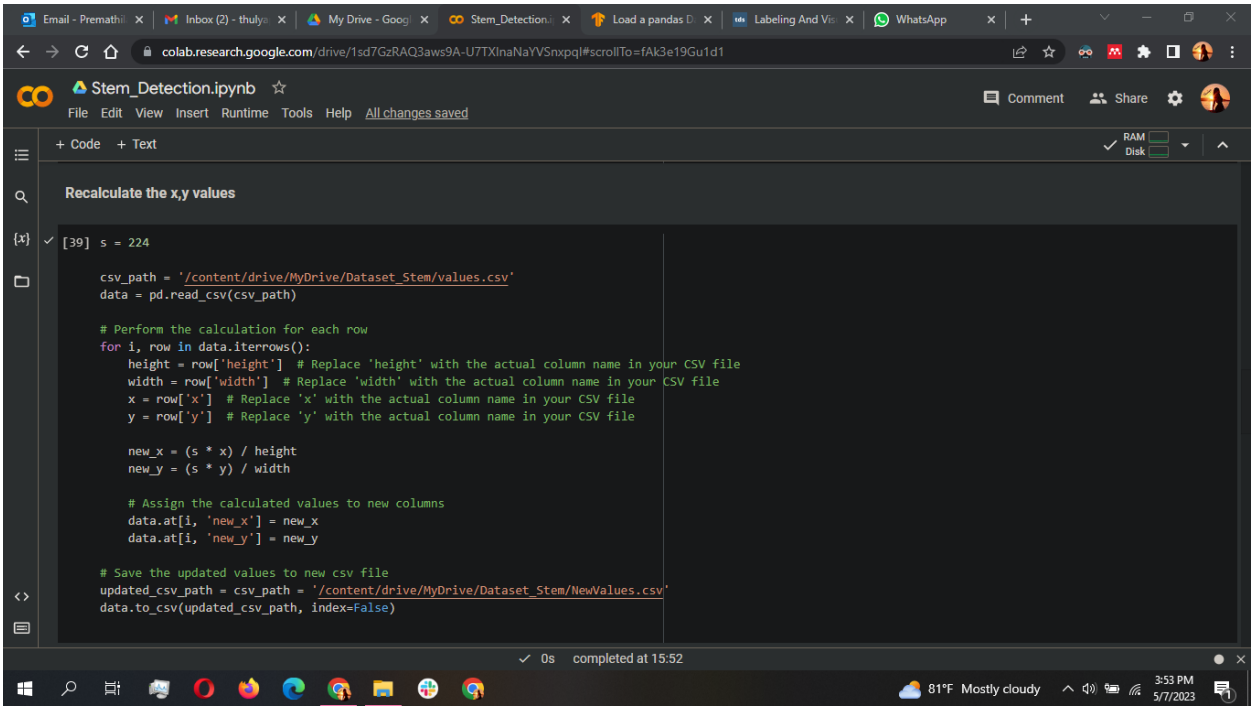

General
Posts
Files
Tasks
Meet
task of accurately and punctually watering and fertilizing crops with manual labor is not feasible, and, in some situations, it has decreased productivity. Large-scale organizations require many human resources to maintain crops. Moreover, in some regions, due to socialization, only a few people are engaged as laborers. So, it has been critical for large-scale organizations to carry on their day-to-day activities. Due to the economic crisis in Sri Lanka, these owners have to spend a lot of financial resources on maintenance. Hence, gaining a considerable amount of profit is more challenging. Further, to overcome these disadvantages, automatic watering systems have been implemented, such as Center Pivot Irrigation, Drip Irrigation. In the Center Pivot Irrigation system, the required services and maintenance must be supplied at the correct time, or the system will break down. Frequent replacement of sprinkler nozzles is needed, which involves a high initial cost. Additionally, for some soil conditions like clayey soil, there is a chance that the wheel gets stuck. [1] When it comes to the Drip Irrigation system, implementing the system requires a high initial cost. Also, the short lifespan of pipes in this system needs frequent maintenance [2]. In the matter of fertilizing systems also have negative impacts on large-scale agri-fields. Considering all the facts, of systems mentioned above also do not fulfill the requirements, so a novel system should be suggested to increase productivity up to the expected level.
See less
Reply
Meeting in "General" ended: 5m 45s
Reply
Friday, March 3, 2023


General
Posts
Files
Tasks
Meet
General started
2 replies from IT20382476 and IT19206806
Reply
Monday, March 27, 2023
Meeting in "Presentation" ended: 1m 14s
Reply
New channel meeting ended: 2m 2s
Attendance report
Click here to download attendance report
Reply
Practice Presentation ended: 50m 43s
Reply
Sunday, May 14, 2023
New conversation

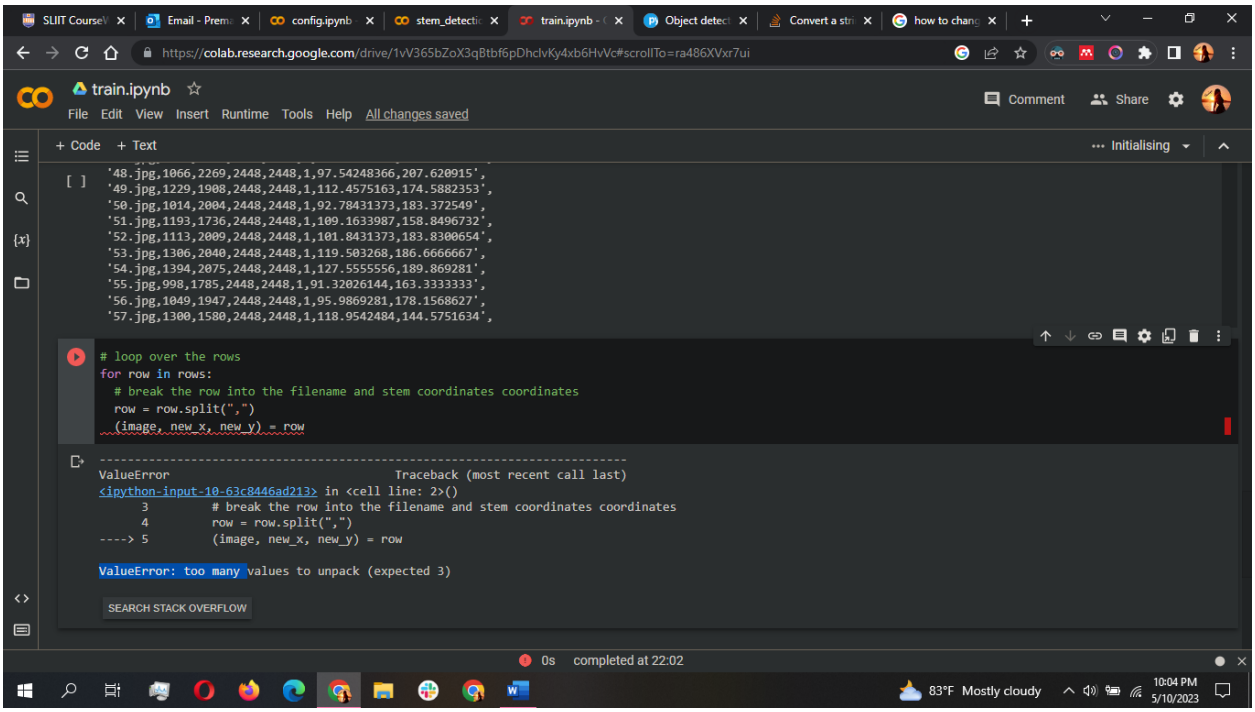

General
Posts
Files
Tasks
Meet
New
Upload
Share
Copy link
Sync
Download
All Documents*
General
Bamunusinghe G.P it20011970, Perera P.V.Y. it20382476, Premathilake H. T. M it20265410
Name
Modified
Modifie...
Add column
Modified By : Premathilake H. T. M it20265410 (1)
Recordings
March 3
Premathilake H. T. ...
Modified By : Perera P.V.Y. it20382476 (4)
agri robot.pdf
February 8
Perera P.V.Y. it2038...
IT4010-TAF (2).docx
February 8
Perera P.V.Y. it2038...
TA (1).docx
February 8
Perera P.V.Y. it2038...
TA.docx
February 8
Perera P.V.Y. it2038...
Modified By : Bamunusinghe G.P it20011970 (1)
Submited Docs
March 13
Bamunusinghe G.P...

6 DEVELOPED PROTOTYPE

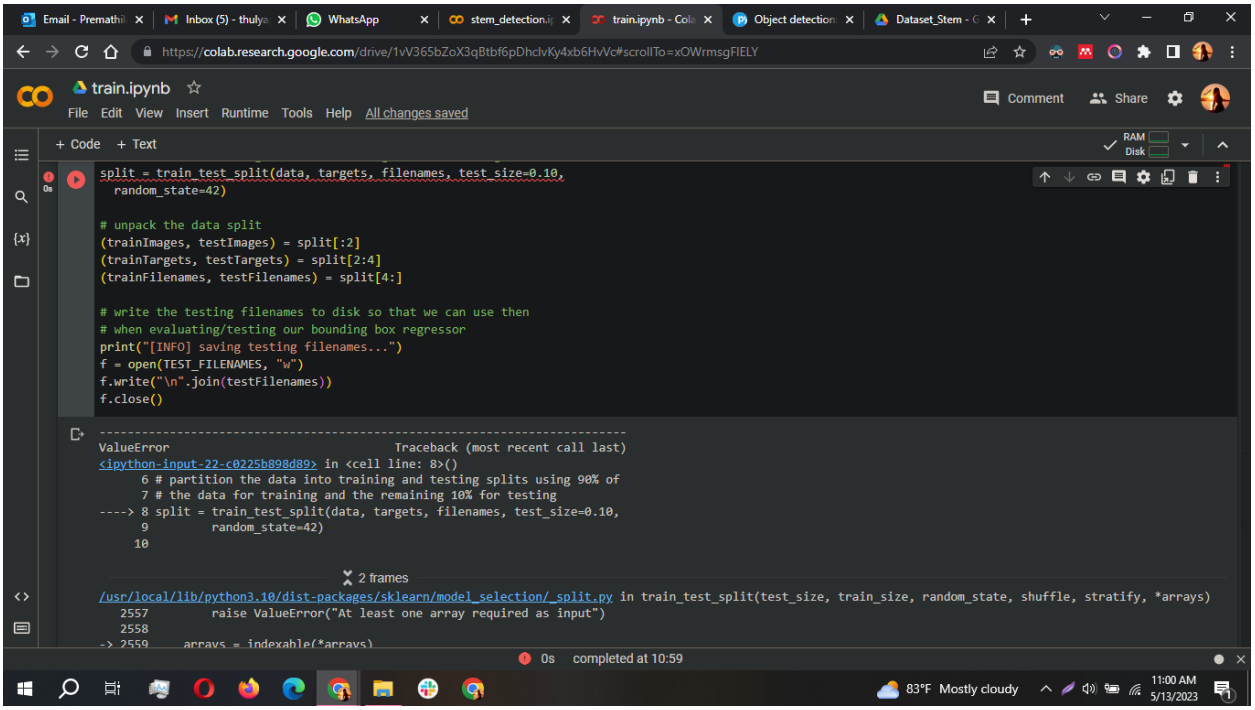




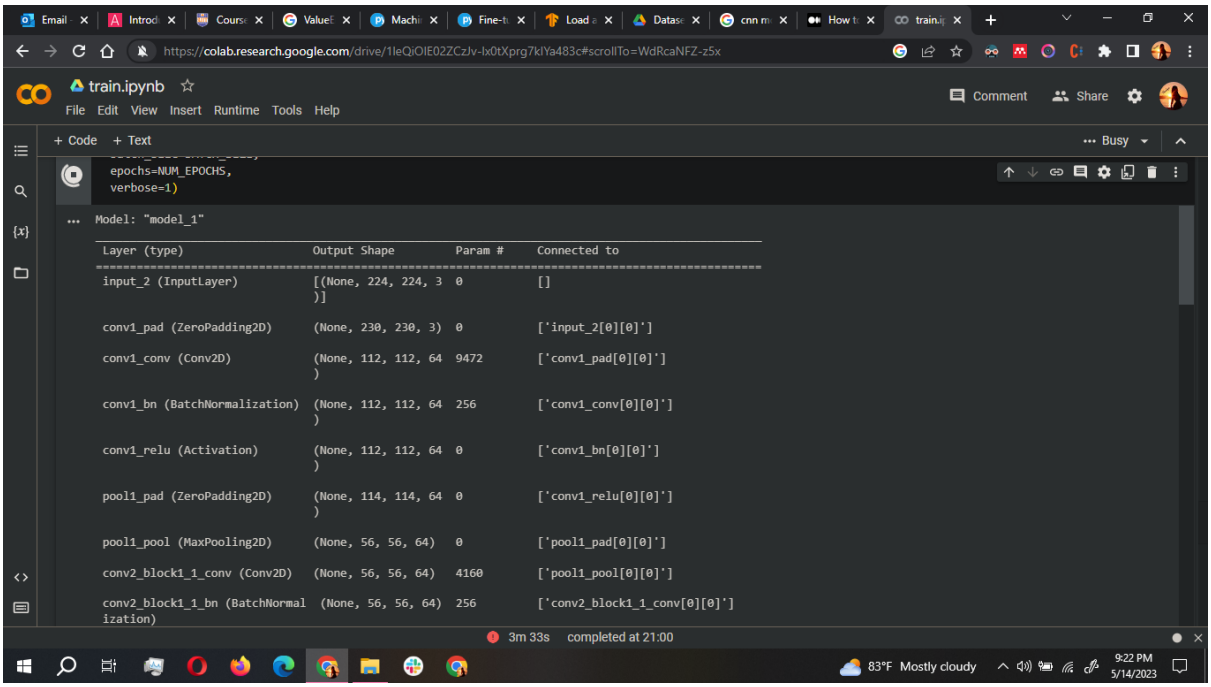
I encountered an error while looping through the data in the CSV file.



I encountered the following error due to the output location.



Train the developed model.



Get the output.