

The Future of Crime Prevention: Police Case Analysis Using Machine Learning

(Police Accident Case Analysis)

Project ID:
2023-224

Status Document 2
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1. Microsoft Teams Details

1.1 Team Members

The screenshot shows the Microsoft Teams interface for a team named "2023-224 The future of crime pr...". The left sidebar includes icons for Activity, Chat, Teams, Assignments, Calendar, Calls, Files, and Apps. The main area displays the team's name and a search bar. Below the search bar, there are tabs for Members, Pending Requests, Channels, Settings, Analytics, Apps, and Tags. The "Members" tab is selected, showing a list of four members:

Name	Title	Location	Tags	Role
Dharsan.R it20003982				Owner
Traveena C. it20001452				Member
Krishanthini M. it19980928				Member
Anubama L. it20068196				Member

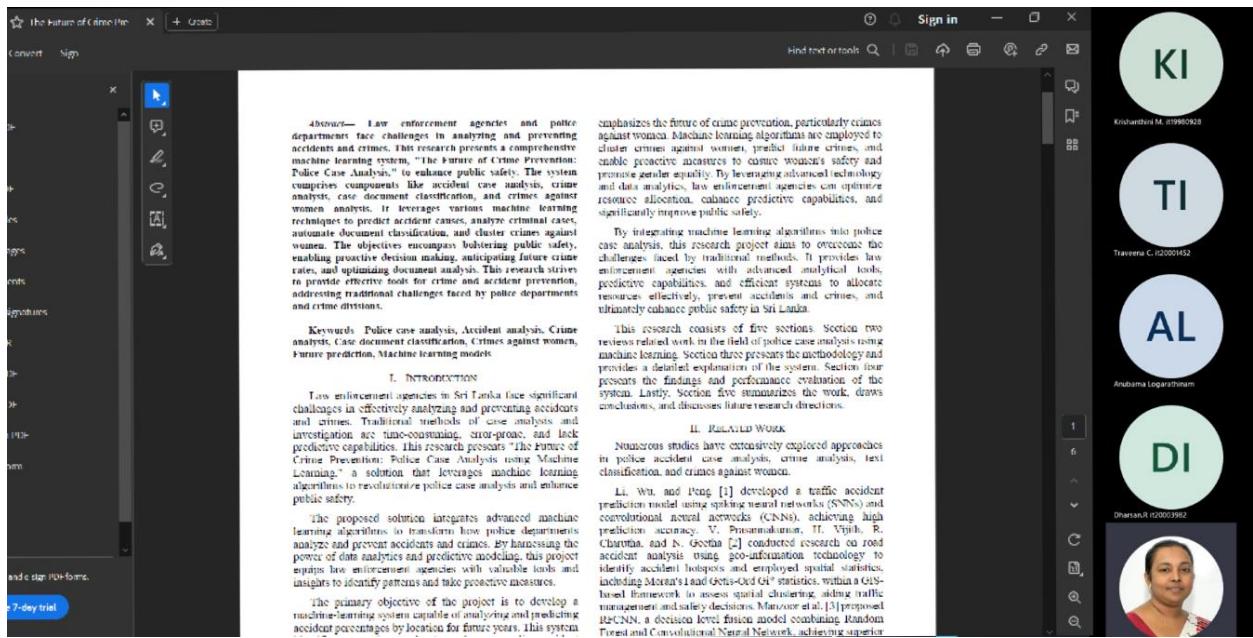
1.2 Team Meetings with Supervisor

The screenshot shows the Microsoft Teams interface for a meeting named "PP2 - Discussion". The top navigation bar includes a search bar, a user icon, and a "Join" button. The main content area displays the meeting summary for Saturday, June 17, 2023, at 10:02:42 AM. The summary includes the following details:

Attended	Start and end time	Meeting duration	Average attendance time
4	10:02 AM - 10:35 AM	32m 33s	16m 44s

Below the summary, the "Participants" section lists four attendees:

Name	First join	Last leave	In-meeting duration	Role
Dharsan.R it20003982 it20003982@my.sliit.lk	10:11 AM	10:35 AM	23m 29s	Organizer
Anubama Logarathinam anubama.logarathinam@itelsoft.com	10:17 AM	10:35 AM	17m 26s	Presenter
Krishanthini M. it19980928 it19980928@my.sliit.lk	10:19 AM	10:35 AM	15m 37s	Presenter
Hansika Mahaadikara hansika.m@sliit.lk	10:24 AM	10:35 AM	10m 24s	Presenter



Research Paper- Discussion with supervisor

Chat Files Attendance Meeting Notes 4 more + Join 4

6/2 8:38 AM Meeting ended: 15s

Attendance

6/2 8:40 AM Meeting started

Krishanthini M. it19980928 was invited to the meeting.

Anubama Logarithnam was invited to the meeting.

6/2 9:01 AM Recording has started

6/2 9:04 AM Recording has stopped. Saving recording...

Recording
Dharsan.R it20003982
3m 25s

This recording is set to expire. View or change the expiration date [here](#). [Learn more](#)

Hansika Mahaadikara was invited to the meeting.

Dharsan.R it20003982 Organizer

Hansika Mahaadikara

KR Krishanthini M. it19980928

TI Traveena C. it20001452

Add people

We had a productive in-person meeting with our supervisor on campus to discuss various aspects of our research project, including the research paper's progress, project developments, and potential conference and journal opportunities.

2. Teams Calls with Research Team

The screenshot shows a code editor interface with several files open in the left sidebar:

- `prediction`: Contains `__init__.py`, `views.py`, `models.py`, `forms.py`, `admin.py`, `tests.py`, and `urls.py`.
- `static`: Contains `css/styles.css`.
- `templates`: Contains `base.html`, `predict.html`, and `prediction.html`.
- `views.py`
- `project_name`: Contains `__init__.py`, `settings.py`, `urls.py`, and `wsgi.py`.

The `prediction.html` file is currently selected and displayed in the main editor area:

```
<html>
    <head>
        <title>Predict</title>
        <link rel="stylesheet" type="text/css" href="{% static 'css/styles.css' %}">
    </head>
    <body>
        <div class="container">
            <h1>Enter Input data</h1>
            <form method="post" action="{% url 'prediction:predict' %}">
                {{ csrf_token }}
                <div class="form-group">
                    <label for="gender">Gender:</label>
                    {{ form.gender }}
                </div>
                <div class="form-group">
                    <label for="age">Age:</label>
                    {{ form.age }}
                </div>
            </div>
        </div>
    </body>
</html>
```

The terminal window at the bottom shows the following output:

```
Exception ignored in: function Variable._del_, at 0x000000E2C1701940
Traceback (most recent call last):
  File "C:\Users\Shared\AppData\Local\Programs\Python\Python311\Lib\thick\_init_.py", line 410, in __del__
    if self._tk.getboolean(self._tk.call("info", "exists", self._name)):
RuntimeError: main thread is not in main loop
Tcl.AsyncioError: async handler deleted by the wrong thread      python manage.py runserver
>>> E:\VSCE\IT\VSCE\VSCE - IT\AI\01\accident_code\sample\project_name>
atching for FILE changes with statfileloader
performing system checks...

```

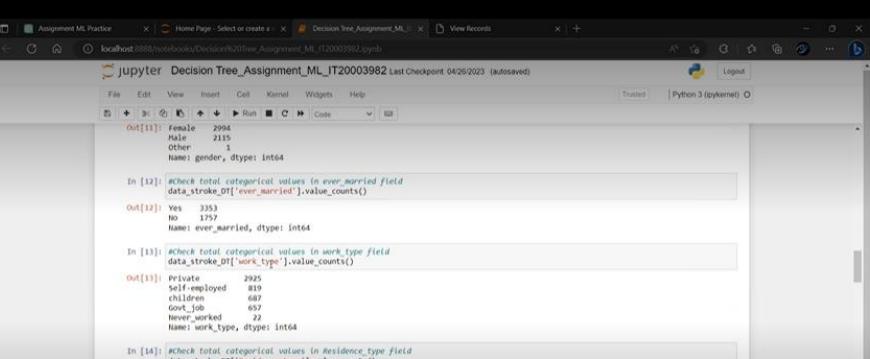
Below the terminal, a status bar indicates:

```
[11/May/2023 21:32:27] "GET /predict/ HTTP/1.1" 200 2695
```

PP2 -Discussion -20230617_204671- Meeting Re... 

+ Add to playlist  Move to  Copy to  ...

Search 

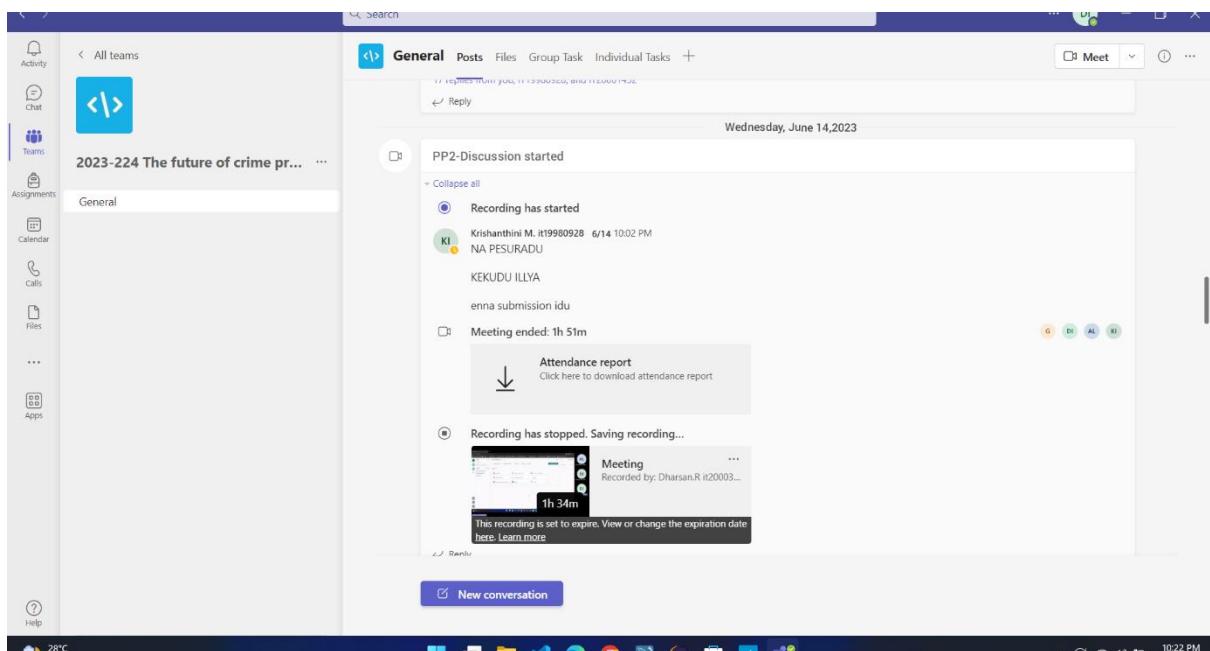


TC
Traveena Chand...

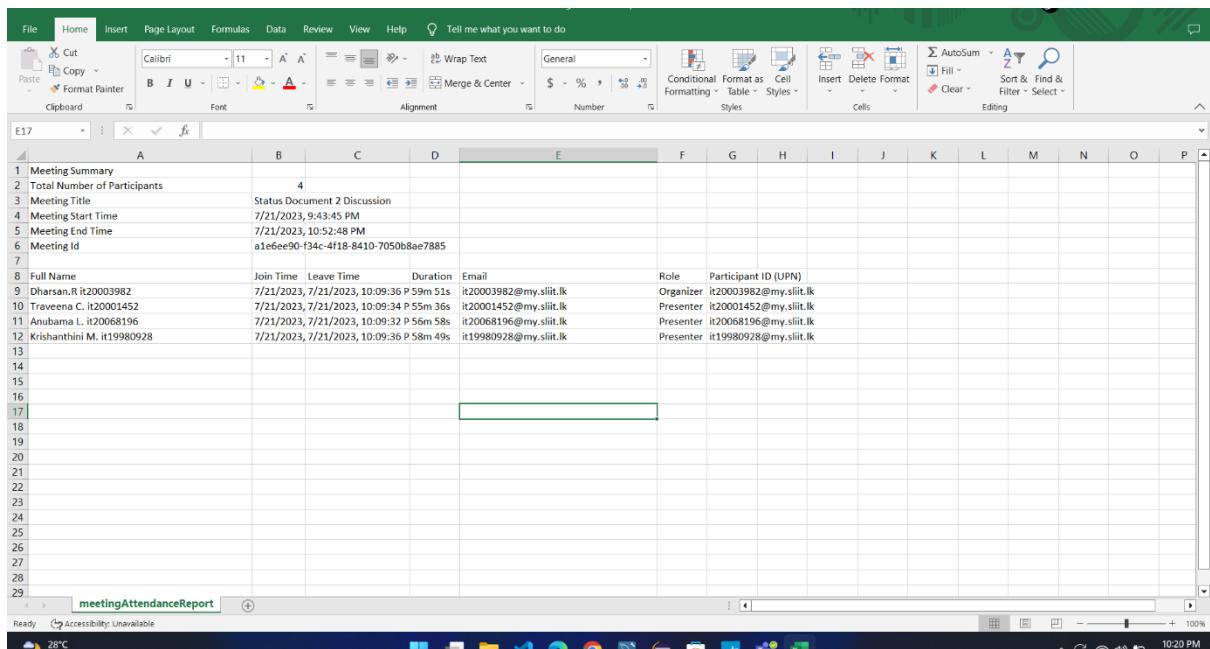
KI
Krishanthini M. I...

DI
Dharsan.R.it200...

AL
Anitha Raja...



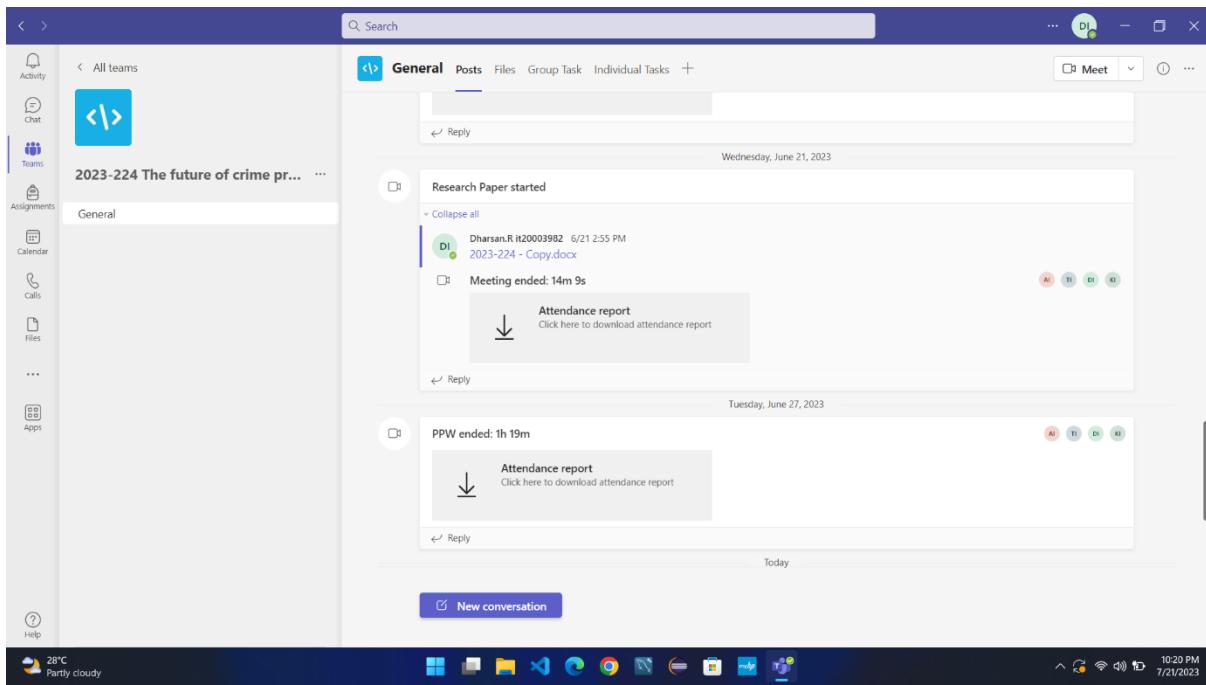
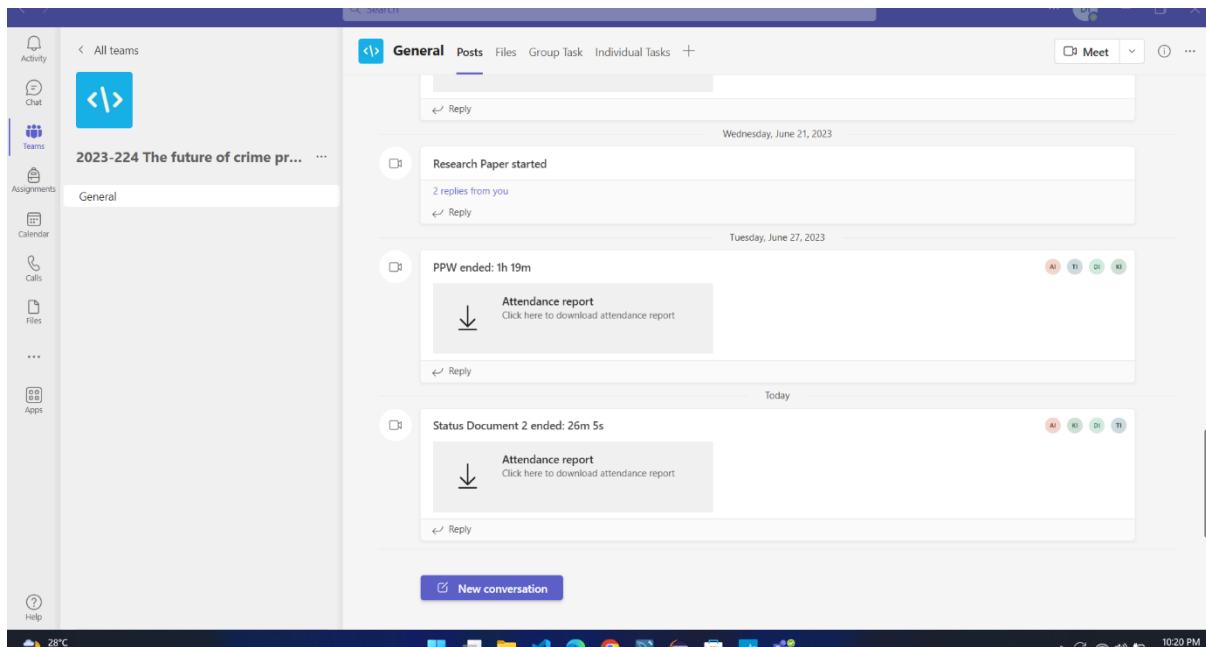
A screenshot of a Microsoft Teams meeting summary page. The title of the meeting is "PP2-Discussion started". It shows a recording has started, with Krishanthini M. (it19980928) as the recorder at 6/14 10:02 PM. Participants listed include KEKUDU ILLYA and enna submission idu. The meeting ended at 1h 51m. A link to download the attendance report is provided. The recording has stopped and is saving, with a duration of 1h 34m. The recording is set to expire and a link to change the expiration date is provided. The Teams interface includes a sidebar with activity, chat, teams, assignments, calendar, calls, files, and apps, and a bottom navigation bar with search, meet, and other options.



A screenshot of a Microsoft Excel spreadsheet titled "meetingAttendanceReport". The spreadsheet contains the following data:

Row	Column	Content
1	A	Meeting Summary
2	A	Total Number of Participants
3	A	Meeting Title
4	A	Meeting Start Time
5	A	Meeting End Time
6	A	Meeting Id
7	A	Full Name
8	A	Join Time
9	A	Leave Time
10	A	Duration
11	A	Email
12	A	Role
13	A	Participant ID (UPN)
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		

The spreadsheet also includes a formula bar showing "E17", a status bar indicating "Ready" and "Accessibility: Unavailable", and a taskbar at the bottom showing various application icons.



```

const PORT = process.env.PORT || 3000;
mongoose.connect('your mongo address', {
  useNewUrlParser: true,
  useUnifiedTopology: true,
});
// define Todo schema
const todoschema = new mongoose.Schema({
  title: String,
  completed: Boolean,
});
const Todo = mongoose.model('Todo', todoschema);
app.use(express.json());
// API endpoints
app.get('/todos', async (req, res) => {
  try {
    const todos = await Todo.find();
    res.json(todos);
  } catch (error) {
    res.status(500).json({ error: 'server error' });
  }
});
app.post('/todos', async (req, res) => {
  try {
    const { title, completed } = req.body;
    const todo = new Todo({
      title,
      completed,
    });
    await todo.save();
    res.json(todo);
  } catch (error) {
    res.status(500).json({ error: 'server error' });
  }
});

```

Predict accident & fatal percentage for future years

```

In [15]: import pandas as pd
from statsmodels.tsa.arima.model import ARIMA
import warnings
import joblib
import numpy as np

# Disable the warnings
warnings.filterwarnings("ignore")

# Load the dataset
data = pd.read_csv('fatalAccident.csv')

```

```

In [16]: # Select relevant columns
data = data[['DIVISION_NAME', 'YEAR', 'VE_TOTAL', 'TOTALS']]
# Convert YEAR column to datetime
data['YEAR'] = pd.to_datetime(data['YEAR'], format='%Y')

```

```

In [17]: # Group by DIVISION_NAME and YEAR, calculate total incidents and fatalities

```

3. Microsoft Teams Planner

3.1 Planner Board Group Tasks

The screenshot shows the Microsoft Teams Planner interface in 'Board' mode. On the left is a sidebar with icons for Activity, Chat, Teams, Assignments, Calendar, Calls, Files, and Apps. The main area has a header with tabs: General, Posts, Files, Group Task (selected), Individual Tasks, and a plus sign. Below the header are buttons for 'Group by Bucket', 'Filter', 'List', 'Board' (selected), 'Charts', and 'Schedule'. The central board area is titled 'General' and contains a 'To do' section with a list of tasks. One task, 'PP2 90%', has a due date of 09/06 and is assigned to team members T1, AI, KI, and +1. Another task, 'Final Report viva & Presentation', has a due date of 10/30 and is assigned to T1, AI, KI, and +1. A third task, 'Project website', has a due date of 11/05 and is assigned to T1, AI, KI, and +1. A fourth task, 'Testing', has a due date of 09/06 and is assigned to T1, AI, KI, and +1. At the bottom of the 'To do' list, there are buttons for 'Completed tasks' (23) and a dropdown menu. To the right of the 'To do' list is a vertical panel with a 'Add new bucket' button.

Individual Task

(filtered my tasks)

The screenshot shows the Microsoft Teams Planner interface in 'Individual Tasks' mode. The sidebar and header are identical to the previous screenshot. The main board area displays three columns of tasks assigned to different users: Dharsan.R (it20003982), Anubama L. (it20068196), and Krishanthini M. (it19980928). Each column has a 'Add task' button. The tasks listed are: 1. Pattern Analysis - pp2 - Code Accident Prediction (due 09/06, assigned to Dharsan.R) 2. Python Django web application - PP2 Accident Prediction (due 09/06, assigned to Dharsan.R) 3. Final Submission & Viva (Individual) Crimes against women (due 11/08, assigned to Dharsan.R) 4. logbook Accident Prediction (due 11/08, assigned to Dharsan.R) 5. Research logbook creation Crime Prediction (due 10/23, assigned to Anubama L.) 6. Final Submission & Viva (Individual) Crimes against women (due 10/26, assigned to Anubama L.) 7. Python Django web application - PP2 Crimes against women (due 09/04, assigned to Anubama L.) 8. model training pp2 Crimes against women (due 09/10, assigned to Anubama L.) 9. Full code implementation (due 09/10, assigned to Krishanthini M.)

The screenshot shows the Microsoft Teams interface in Board view. On the left, there's a sidebar with icons for Activity, Chat, Teams, Assignments, Calendar, Calls, Files, and Apps. The main area has a header with tabs for General, Posts, Files, Group Task, Individual Tasks (which is selected), and a plus sign. Below the header, there are sections for Unassigned and a specific user, Dharsan.R (it20003982). The Unassigned section has a button to '+ Add task'. The Dharsan.R section lists several tasks:

- 09/06: Final Submission & Viva (Individual) - Accident Prediction
- 11/08: logbook - Accident Prediction
- 11/10: Web Application - Individual Component - 100% - PP2 - Accident Prediction
- 09/04: Prevention Strategies - PP2(90%) code

At the bottom right, there are buttons for Group by Assigned to, Filter (1), List, Board (selected), Charts, and Schedule.

This screenshot is similar to the one above, showing the Microsoft Teams interface in Board view. The sidebar and header are identical. The tasks listed under Dharsan.R (it20003982) are:

- 11/10: Web Application - Individual Component - 100% - PP2 - Accident Prediction
- 09/04: Prevention Strategies - PP2(90%) code
- 09/06: Report - To do
- 09/10: (This task is highlighted in green)

At the bottom right, there are buttons for Group by Assigned to, Filter (1), List, Board (selected), Charts, and Schedule. Below the tasks, it says "Completed tasks 18".

3.2 Completed Tasks – Group Task

This screenshot shows a Microsoft Teams Group Task board titled "General". The "Group Task" tab is selected. The "To do" list contains the following items:

- + Add task
- ✓ Research Paper (Completed by Krishanthini M. it1...)
- ✓ PPT-50% (Completed by Dharsan.R.it20003...)
- ✓ Proposal-Presentation (Completed by Dharsan.R.it20003...)
- ✓ Proposal-Report-Draft (Completed by Dharsan.R.it20003...)
- ✓ Topic-Assessment-Form (Completed by Dharsan.R.it20003...)
- ✓ Design (Completed by Dharsan.R.it20003...)

The sidebar on the left shows the team "2023-224 The future of crime pr..." and the "General" channel is selected. The bottom status bar indicates the date as 9/2/2023 and the time as 12:29 AM.

This screenshot shows a Microsoft Teams Group Task board titled "General". The "Group Task" tab is selected. The "To do" list contains the following items:

- + Add task
- ✓ Design
- ✓ Completed by Traveena C. it2000...
- ✓ Project Charter
- ✓ Completed by Traveena C. it2000...
- ✓ Project Charter
- ✓ Completed by Dharsan.R.it20003...
- ✓ Design
- ✓ Completed by Krishanthini M. it1...
- ✓ NBCSA presentation
- ✓ Completed by Dharsan.R.it20003...
- ✓ Design

The sidebar on the left shows the team "2023-224 The future of crime pr..." and the "General" channel is selected. The bottom status bar indicates the date as 9/2/2023 and the time as 12:29 AM.

A screenshot of the Microsoft Teams interface showing a 'Group Task' board. The left sidebar shows various team channels like 'All teams', 'Activity', 'Chat', 'Teams', 'Assignments', 'Calendar', 'Calls', 'Files', and 'Apps'. The main area displays a 'General' task board with a 'To do' section containing a button to 'Add task'. Below it is a 'Completed tasks' section with 23 items. One item is highlighted: 'Research Paper' (Completed by Dharsan.R it2000...). Other completed tasks include 'Proposal Report Draft', 'Proposal-Presentation', 'Topic Assessment Form', 'Topic Evaluation', and several entries starting with 'Completed by Traveena C. it2000...'. The top navigation bar includes 'General', 'Posts', 'Files', 'Group Task', 'Individual Tasks', and a '+' button. The bottom navigation bar offers options like 'Group by Bucket', 'Filter', 'List', 'Board' (selected), 'Charts', and 'Schedule'.

Individual Task – (filtered by it20003982 Dharsan.R – Accident Prediction)

A screenshot of the Microsoft Teams interface showing an 'Individual Tasks' board. The left sidebar is identical to the previous screenshot. The main area displays a 'General' task board with a 'Completed tasks' section containing 11 items. One item is highlighted: 'Cause Prediction Web App coding' (Completed by Dharsan.R it2000...). Other completed tasks include 'Accident-Prediction Web App', 'PP1-50%', 'Status Document', 'Completed by Dharsan.R it2000...', and 'Research Paper'. The top navigation bar includes 'General', 'Posts', 'Files', 'Group Task', 'Individual Tasks' (selected), and a '+' button. The bottom navigation bar offers options like 'Group by Bucket', 'Filter (1)', 'List', 'Board' (selected), 'Charts', and 'Schedule'. The status bar at the bottom right shows the time as 12:31 AM.

This screenshot shows the Microsoft Teams interface for a team named "2023-224 The future of crime pr...". The left sidebar includes icons for Activity, Chat, Teams, Assignments, Calendar, Calls, Files, and Apps. The main area displays the "General" tab under "Individual Tasks".

The tasks listed are:

- Dharsan.R it20003982 (Unassigned)
 - Add task
 - ACCIDENT PREDICTION
 - Completed by Dharsan.R it20003...
 - Dataset Gathering (Accident Prediction)
 - Completed by Dharsan.R it20003...
 - Testing 1.ppt (Accident Prediction)
 - Completed by Dharsan.R it20003...
 - Web Application- Individual Component 50% (Accident Prediction)
 - Completed by Dharsan.R it20003...
 - Finding Connections Between Accident--ppt

This screenshot shows the Microsoft Teams interface for the same team "2023-224 The future of crime pr...". The left sidebar is identical to the first screenshot.

The tasks listed are:

- Dharsan.R it20003982 (Unassigned)
 - Add task
 - Completed by Dharsan.R it20003...
 - Learning Algorithms (To do)
 - Completed by Dharsan.R it20003...
 - Proposal Document (To do)
 - Completed by Dharsan.R it20003...
 - Accident - Prediction (To do)
 - Completed by Dharsan.R it20003...
 - Status Document - Individual (To do)
 - Completed by Dharsan.R it20003...

3.3 Pending Tasks Group Task

A screenshot of the Microsoft Teams interface. On the left is a sidebar with icons for Activity, Chat, Teams, Assignments, Calendar, Calls, Files, and Apps. The main area shows a team named "2023-224 The future of crime pr...". The "General" tab is selected. At the top, there are tabs for General, Posts, Files, Group Task (which is selected), Individual Tasks, and a plus sign. Below the tabs are filters for Progress, Assign, Priority, and more. A search bar says "Search". The main content area displays a table of tasks:

Task title	Assigned to	Priority	Due	Bucket
New task		●		To do
logbook	Ti, AI, Kd, Di		11/10	To do
Project website	Ti, AI, Kd, Di		11/5	To do
PP2 90%	Ti, AI, Kd, Di	!	9/6	To do
Final Report viva & Presentation	Ti, AI, Kd, Di		10/30	To do
Testing	Ti, AI, Kd, Di		9/6	To do

Individual Task

A screenshot of the Microsoft Teams interface, similar to the previous one but with different task data. The sidebar and team selection are identical. The "General" tab is selected. The main content area displays a table of tasks:

Task title	Assigned to	Priority	Due	Bucket
Add a task				
Report	Dharsan.R.it20003982		9/10	To do
logbook	Dharsan.R.it20003982		11/10	Accident Prediction
Python Django web application - PP2(90% Completed)	Dharsan.R.it20003982	!	9/6	Accident Prediction
Final Submission & Viva (Individual)	Dharsan.R.it20003982		11/8	Accident Prediction
Web Application - Individual Component - 100% - PP2	Dharsan.R.it20003982	!	9/4	Accident Prediction

3.4 Teams Planner Schedule

Group Task

The screenshot shows the Microsoft Teams Planner interface in 'General' mode for the month of September 2023. The calendar grid highlights several tasks: 'PP2 90%' on Saturday, September 6th, and 'Testing' on Sunday, September 7th. Other visible tasks include 'Final Rep...' on Friday, September 1st, and 'Final Rep...' on Monday, September 11th. The sidebar on the left provides quick access to various Microsoft 365 services.

The screenshot shows the Microsoft Teams Planner interface in 'General' mode for the month of November 2023. The calendar grid highlights several tasks: 'Final Rep...' on Saturday, November 25th, 'logbook' on Sunday, November 26th, and 'Project w...' on Wednesday, November 1st. Other visible tasks include 'Final Rep...' on Friday, November 3rd, and 'Final Rep...' on Monday, November 6th. The sidebar on the left provides quick access to various Microsoft 365 services.

Individual Task

The screenshot shows the Microsoft Teams calendar interface for the month of September 2023. The calendar view is set to 'Month' mode. On the 4th, there is a task titled 'Web App...' and on the 6th, a task titled 'Accident...'. A button labeled 'Report' is visible on the 10th. The sidebar on the left lists various team channels and apps, while the right sidebar shows a list of tasks categorized under 'To do', 'Crimes against women', 'Crime Prediction', 'Accident Prediction', 'Case Document Classification', and 'Completed'.

The screenshot shows the Microsoft Teams calendar interface for the month of November 2023. The calendar view is set to 'Month' mode. On the 8th, there is a task titled 'Final Sub...' and on the 10th, a task titled 'logbook'. The sidebar on the left lists various team channels and apps, while the right sidebar shows a list of tasks categorized under 'To do', 'Crimes against women', 'Crime Prediction', 'Accident Prediction', 'Case Document Classification', and 'Completed'.

3.5 Teams Planner Charts Group Task

The screenshot shows the Microsoft Teams Planner interface for a group task. The top navigation bar includes 'General', 'Posts', 'Files', 'Group Task' (selected), 'Individual Tasks', and a '+' button. The right side features tabs for 'Group by Bucket', 'Filter', 'List', 'Board', 'Charts' (selected), and 'Schedule'. On the left, a sidebar lists 'Activity', 'Chat', 'Teams', 'Assignments', 'Calendar', 'Calls', 'Files', '...', and 'Apps'. The main area displays three charts: a donut chart titled 'Status' showing 5 tasks left, a bar chart titled 'Bucket' with a single bar at position 27 labeled 'To do', and a bar chart titled 'Priority' with a single bar at position 30. To the right, a 'Tasks' pane lists several items with due dates and status indicators.

Status	Count
Not started	0
In progress	5
Late	0
Completed	23

Bucket	Value
To do	27

Priority	Value
	30

Task	Due Date	Status
logbook	10/30	Not started
PP2 90%	10/05	In progress
Final Report viva & Presentation	09/06	Not started
Project website	10/30	Not started
Python Django web application - PP2(90% Completed)	11/05	Completed

Individual Task

The screenshot shows the Microsoft Teams Planner interface for individual tasks. The top navigation bar includes 'General', 'Posts', 'Files', 'Group Task', 'Individual Tasks' (selected), and a '+' button. The right side features tabs for 'Group by Bucket', 'Filter (1)', 'List', 'Board', 'Charts' (selected), and 'Schedule'. On the left, a sidebar lists 'Activity', 'Chat', 'Teams', 'Assignments', 'Calendar', 'Calls', 'Files', '...', and 'Apps'. The main area displays three charts: a donut chart titled 'Status' showing 5 tasks left, a bar chart titled 'Bucket' with bars at positions 8 and 17 labeled 'Crimes against women' and 'Case Document Classification' respectively, and a bar chart titled 'Priority' with a single bar at position 25. To the right, a 'Tasks' pane lists several items with due dates and status indicators.

Status	Count
Not started	0
In progress	5
Late	0
Completed	20

Bucket	Value
To do	8
Crimes against women	17
Crime Prediction	4
Accident Prediction	4
Case Document Classification	4

Priority	Value
	25

Task	Due Date	Status
Report	09/10	Not started

Crimes against women

Crime Prediction

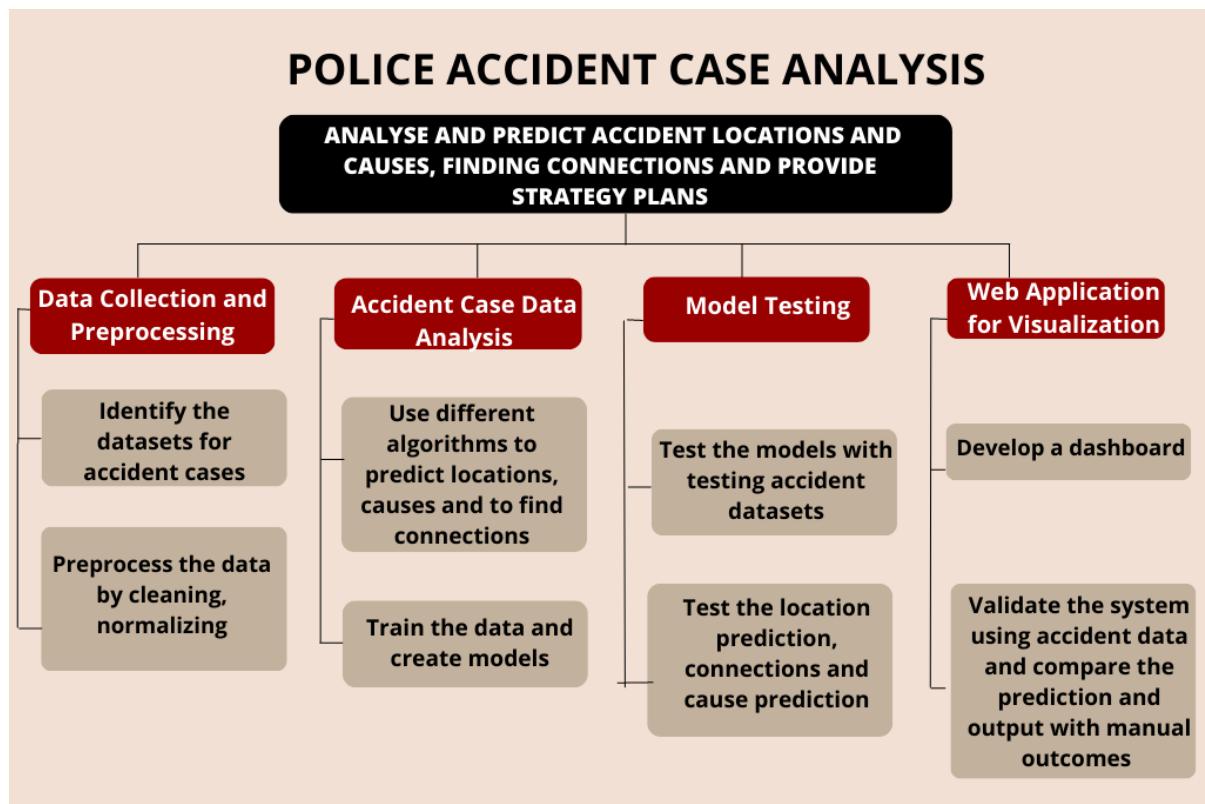
Accident Prediction

Python Django web application - PP2(90% Completed)

4. Gantts Chart

Tasks	2022		2023											
	December	January	February	March	April	May	June	July	August	September	October	November	December	
Topic Clarification														
Topic Assessment														
Project Charter														
Requirements Gathering														
Making of Project Proposal														
Project Presentation														
Proposal Report														
Progress Presentation-1														
Research Paper														
Final Report														
Progress Presentation-2														
Testing and Fixing issues														
Website Assessment and Research Book														
Final Report (Soft bound)														
Status Document Submission														
Final Presentation and Viva														
Final Report Submission														

5. Work Break down Chart



6. WhatsApp Research Project Group

The screenshot shows a WhatsApp group chat titled "POLICE - Research - 2023". The group has 6 participants. A message from "Hansika Mahaadikaara Madam Sliit" at 10:49 am yesterday asks for guidance on a presentation. The group info panel is open, showing the group name "RESEARCH PROJECT (POLICE)" with two people icon and a gear icon.

POLICE - Research - 2023

Anubama, Hansika, Krish, Sanjeevi, Travee, You

we wanted to kindly request a small discussion regarding our upcoming Progress Presentation 1, scheduled for the 26th from 3pm to 4pm. I would greatly appreciate your guidance and input to ensure a successful presentation.

If it's convenient for you, could we please schedule a brief Teams call to discuss the presentation? We are open to your availability, so please let us know a date and time that works best for you madam.

10:49 am ✓✓

YESTERDAY

Hansika Mahaadikaara Madam Sliit
10am today 5:15 am

Okay madam 9:00 am ✓✓

Hansika Mahaadikaara Madam Sliit
10.20 hav a lecture till 10 9:19 am

Hansika Mahaadikaara Madam Sliit

Type a message

Group info

RESEARCH PROJECT (POLICE)

POLICE - Research - 2023

Group · 6 participants

TMP-23-224

Group created by you, on 22/12/2022 at 10:42 am

Media, links and docs 18 >

Media, links and docs

Group info

The screenshot shows the WhatsApp group chat "POLICE - Research - 2023" with the group info panel open. It lists five members: You (Group Admin), Anubama (Group Admin), Hansika Mahaadikaara Ma... (Group Admin), Krish (Group Admin), and Sanjeevi Chandrasiri Mada... (Group Admin). The member "Travee" is partially visible. The "Exit group" option is also present.

POLICE - Research - 2023

Anubama, Hansika, Krish, Sanjeevi, Travee, You

we wanted to kindly request a small discussion regarding our upcoming Progress Presentation 1, scheduled for the 26th from 3pm to 4pm. I would greatly appreciate your guidance and input to ensure a successful presentation.

If it's convenient for you, could we please schedule a brief Teams call to discuss the presentation? We are open to your availability, so please let us know a date and time that works best for you madam.

10:49 am ✓✓

YESTERDAY

Hansika Mahaadikaara Madam Sliit
10am today 5:15 am

Okay madam 9:00 am ✓✓

Hansika Mahaadikaara Madam Sliit
10.20 hav a lecture till 10 9:19 am

Hansika Mahaadikaara Madam Sliit

Type a message

Group info

Add participant

Invite to group via link

You Group Admin
Noise creates illusions, Silence brings truth!...

Anubama Group Admin
Heart made of glass ' mind of stone 😊

Hansika Mahaadikaara Ma... Group Admin
Hansika Mahaadikaara

Krish Group Admin

Sanjeevi Chandrasiri Mada... Group Admin
Urgent calls only

Travee 🎃Pumpkin 🍁தம் ... Group Admin

...

Exit group

POLICE - Research - 2023

Anubama, Hansika, Krish, Sanjeevi, Travee, You

You're invited 20/05/2023 : meeting!

PP1 - Discussion

https://teams.microsoft.com/l/meetup-join/19%3ameeting_MzVhN2lzMTEtY2U1ZS00MTBkLTlhNTUtMDQ3Njg2Y2E4YmFh%40thread.v2/0?context=%7b%22Tid%22%3a%2244e3cf94-19c9-4e32-96c3-14f5bf01391a%22%2c%22Oid%22%3a%22bc4954dd-f4e0-493f-a210-75906c308207%22%7d

Tap on the link or paste it in a browser to join. 9:25 am ✓

23/05/2023

Dear @Hansika Mahaadikaara Madam Sliit Madam,

I have a quick question regarding our research project. Is it possible to use multiple algorithms for a specific component, or are we restricted to using only one algorithm? Could you please let me know?

Thank you! 11:57 am ✓

Hansika Mahaadikaara Madam Sliit no any restriction 12:26 pm

Okay madam. Thank you!!!

Type a message

POLICE - Research - 2023

Anubama, Hansika, Krish, Sanjeevi, Travee, You

20/06/2023

The Future of Crime Prevention: Police Case Analysis using Machine Learning

Download PDF 2023-224-Research Paper2023.pdf 8 pages • PDF • 693 kB

Dear @Hansika Mahaadikaara Madam Sliit Madam and @Sanjeevi Chandrasiri Madam -SL - co Supervisor Madam,

Herewith I have attached the draft Research Paper for your review. Your valuable feedback and suggestions on any necessary changes or modifications would be highly appreciated. If no changes are required, we can proceed with submitting the paper for publication.

I have sent an email to both of you with the subject "Request for Review and Feedback on Research Paper - Group ID: 2023-224" containing the PDF file.

To discuss any feedback or review issues, let's

Type a message

POLICE - Research - 2023
Anubama, Hansika, Krish, Sanjeevi, Travee, You

feedback, and any changes that need to be made.
The meeting c...Read more 6:59 pm ✓

20/06/2023

Hansika Mahaadikaara Madam Sliit
Write the acknowledgement also in passive voice
Referrence 1,2,4 ???
Referrence numbers should started by 1 8:18 pm
Reduce the number of pages to 6 8:18 pm

Okay madam. We will update the paper. 8:20 pm ✓

Hansika Mahaadikaara Madam Sliit
My name
Mahaadikaara M.D.J.T. Hansika
Faculty of Computing,
Sri Lanka Institute of Information Technology , Malabe , Sri Lanka

Do not use titles 8:28 pm

Sanjeevi Shahikala Chandrasiri,
Faculty of Computing ,
Sri Lanka Institute of Information Technology , Malabe , Sri Lanka 8:30 pm

Okay madam!!!

Type a message

POLICE - Research - 2023
Anubama, Hansika, Krish, Sanjeevi, Travee, You

20/06/2023

Sanjeevi Chandrasiri Madam -SL - co Supervisor
Hansika Mahaadikaara Madam Sliit
Sanjeevi Shahikala Chandrasiri,
Faculty of Computing ,
Sri Lanka Institute of Information Technology , Malabe , Sri Lanka

Sanjeevi not w please 9:30 pm

Sanjeevi Chandrasiri Madam -SL - co Supervisor
Sanjeevi not w please
Okay madam 9:39 pm ✓

21/06/2023

Hansika Mahaadikaara Madam Sliit
We r going to nominate your research project for NBSQA 8:44 am

Sanjeevi Chandrasiri Madam -SL - co Supervisor
Yes please prepare for a progress soon 8:50 am

Krish
~~This message was deleted~~ 8:55 am

Type a message

7. Gitlab Details and Commits

The screenshots illustrate the GitLab interface for a project named "2023-224".

- Screenshot 1: Project Overview - Members**
Shows the "Members" section of the project settings. It lists existing members and groups, including "Anubama Logaratnam" (Owner), "Dharsan.R" (Developer), "Hansika Mahadikara" (Guest), "Krishanthini.M" (Developer), "Sanjeevi Sashikala Chandrasiri" (Guest), and "traveena chandrasegar" (Developer). A sidebar on the left shows project navigation.
- Screenshot 2: Project Overview - Details**
Shows the "Details" section of the project overview. It displays the repository URL ("policeAnalysis/policeAnalysis"), the last modified template ("modified template" 15 minutes ago), and the last updated README.md ("Update README.md" 3 months ago). The main content area contains the README.md file's text, which discusses the main objective and research questions related to crime prevention using machine learning.
- Screenshot 3: Project Overview - Details**
Shows the "Details" section of the project overview. The main content area contains detailed research questions and objectives for the project, such as "How can machine learning algorithms be used to analyze and predict accident locations and connections in police accident cases for targeted safety measures and accident prevention?", "What are the specific challenges faced by law enforcement agencies and the court system in Sri Lanka regarding the handling of criminal cases?", and "Develop a model for predicting crimes against women. Provide information on the locations and types of crimes against women. Enable law enforcement agencies to take preventive measures and allocate resources more effectively".

Not secure | gitlab.sliit.lk/2023-224/2023-224/-/commits/master

CDAP-RP CAREER JDK 17 Documentat... Wiley - Associate S...

GitLab Projects Groups More

2 2023-224 2023-224 > Commits

Project overview Repository Commits Branches Tags Contributors Graph Compare Issues 0

master 2023-224 Filter by commit message

01 Sep, 2023 7 commits

 modified template Dharsan.R_IT20003982 authored just now dddae0cf d

 modified template Dharsan.R_IT20003982 authored just now 98e3f630 d

 modified template Dharsan.R_IT20003982 authored 1 minute ago bdb34d93 d

 modified view.py Dharsan.R_IT20003982 authored 2 minutes ago f2bf4877 d

 modified view.py Dharsan.R_IT20003982 authored 4 minutes ago c5b71855 d

Not secure | gitlab.sliit.lk/2023-224/2023-224/-/commits/master

CDAP-RP CAREER JDK 17 Documentat... Wiley - Associate S...

GitLab Projects Groups More

2 2023-224 2023-224 > Commits

Project overview Repository Commits Branches Tags Contributors Graph Compare Issues 0

modified template Dharsan.R_IT20003982 authored just now dddae0cf d

modified template Dharsan.R_IT20003982 authored just now 98e3f630 d

modified template Dharsan.R_IT20003982 authored 1 minute ago bdb34d93 d

modified view.py Dharsan.R_IT20003982 authored 2 minutes ago f2bf4877 d

modified view.py Dharsan.R_IT20003982 authored 4 minutes ago c5b71855 d

modified view.py Dharsan.R_IT20003982 authored 6 minutes ago 864db0be d

final code updated Dharsan.R_IT20003982 authored 7 minutes ago 0860dd77 d

Files Commits Branches Tags Contributors Graph Compare Issues 0 Merge Requests 0 CI / CD Operations Analytics

31 Aug, 2023 1 commit

 added Dharsan.R_IT20003982 authored 1 day ago e5bcf6f6 d

24 Jul, 2023 2 commits

 area mapping Krishanthini.M authored 1 month ago 0f8ced6e d

 changes made on text doc Krishanthini.M authored 1 month ago 5619449d d

23 Jul, 2023 1 commit

 Updated Dharsan.R_IT20003982 authored 1 month ago e3585d06 d

18 May, 2023 2 commits

 Update README.md Dharsan.R_IT20003982 authored 3 months ago a61a35be d

 Add README.md Dharsan.R_IT20003982 authored 3 months ago b4ff9574 d

<< Collapse sidebar



THE FUTURE OF CRIME PREVENTION: POLICE CASE ANALYSIS USING MACHINE LEARNING.

(Criminal Case Analysis: Analysing and grouping commonalities among criminal cases and predicting the future crimes in terms of the nature of the crime.)

Project Id:

2023-224

Status Document - 11

Krishanthini.M- IT19980928

Supervisor - Ms. Hansika Mahaadikara

Co-Supervisor -Ms. Sanjeevi Chandrasiri

BSc (Hons) in Information Technology Specializing in Software
Engineering

Department of Computer Science & Software Engineering
Sri Lankan Institute of Information Technology
Sri Lanka

Introduction

Group ID – 2023-224

Topic – The Future of Crime prevention: Police Case Analysis Using machine Learning.

Supervisor – Ms. Hansika Mahaadikara

Co- Supervisor - Ms. Sanjeevi Chandrasiri

Group Details

STUDENT REGISTRATION NO	STUDENT NAME
Dharshan.R	IT20003982
Krishanthini.M	IT19980928
Traveena.C	IT20001452
Anubama.L	IT20068196

Description

Crime prevention is a critical aspect of public safety and law enforcement agencies are constantly seeking new ways to prevent crimes from occurring. In recent years, the use of machine learning algorithms in police case analysis has gained significant attention due to its potential to revolutionize the way crimes are prevented and investigated. The proposed research paper, titled "The Future of Crime Prevention: Police Case Analysis using Machine Learning," aims to investigate the effectiveness of machine learning algorithms in analysing past criminal cases and predicting future crimes. Here, this component mainly deals with crimes such as Robbery, Theft, public Offences, Kidnap, and abduction. The main objective is to develop a powerful tool that can be used by police investigators to make predictions about future crimes and allocate resources effectively to prevent them. By leveraging vast amounts of crime and accident data, crimes against women, and case file datasets to train machine learning algorithms, the proposed system aims to provide a comprehensive and sophisticated solution to the challenges faced by police in reducing crime and ensuring public safety. Criminal activities and incidents are widespread today, making it crucial for law enforcement agencies to have a comprehensive understanding of the patterns and trends associated with criminal activities. However, it can be challenging for investigators to comb through vast amounts of data manually to identify patterns and connections that could help solve a case. The utilization of machine learning in criminal case analysis allows for the efficient and effective processing of large volumes of data sets collected from past criminal incidents.

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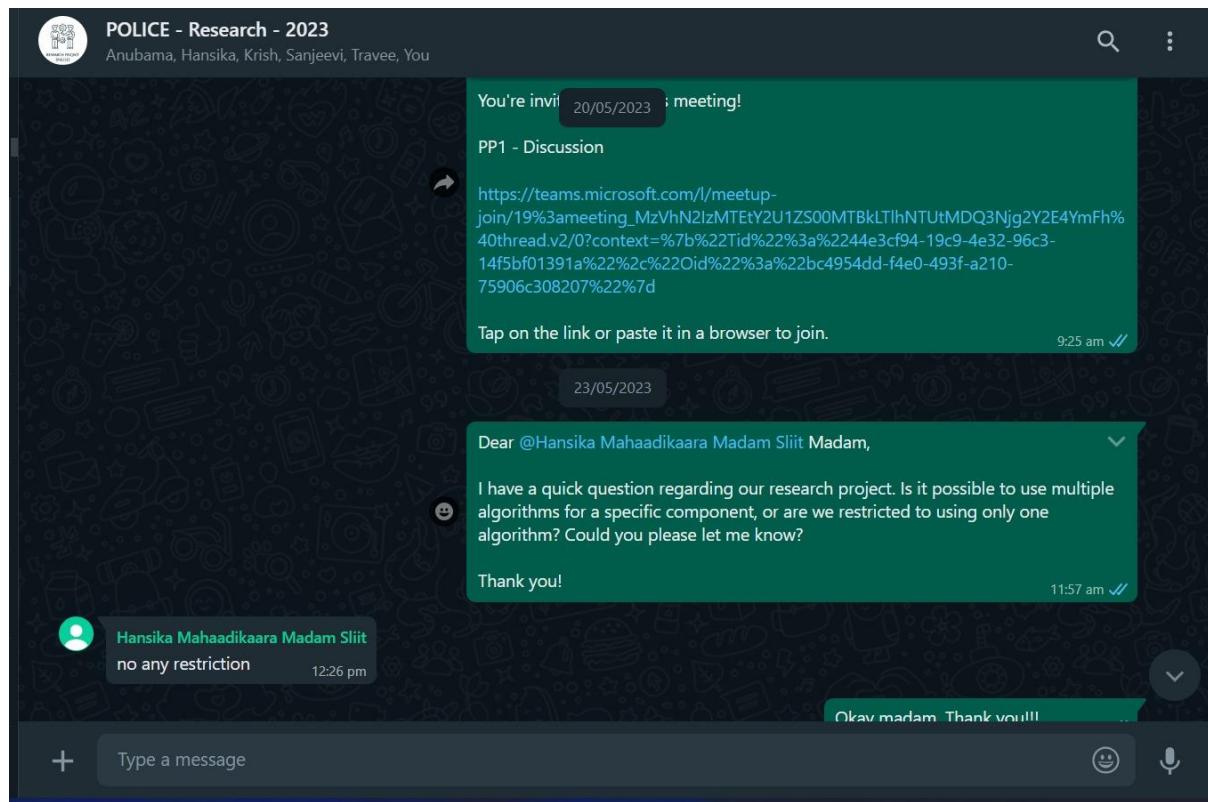
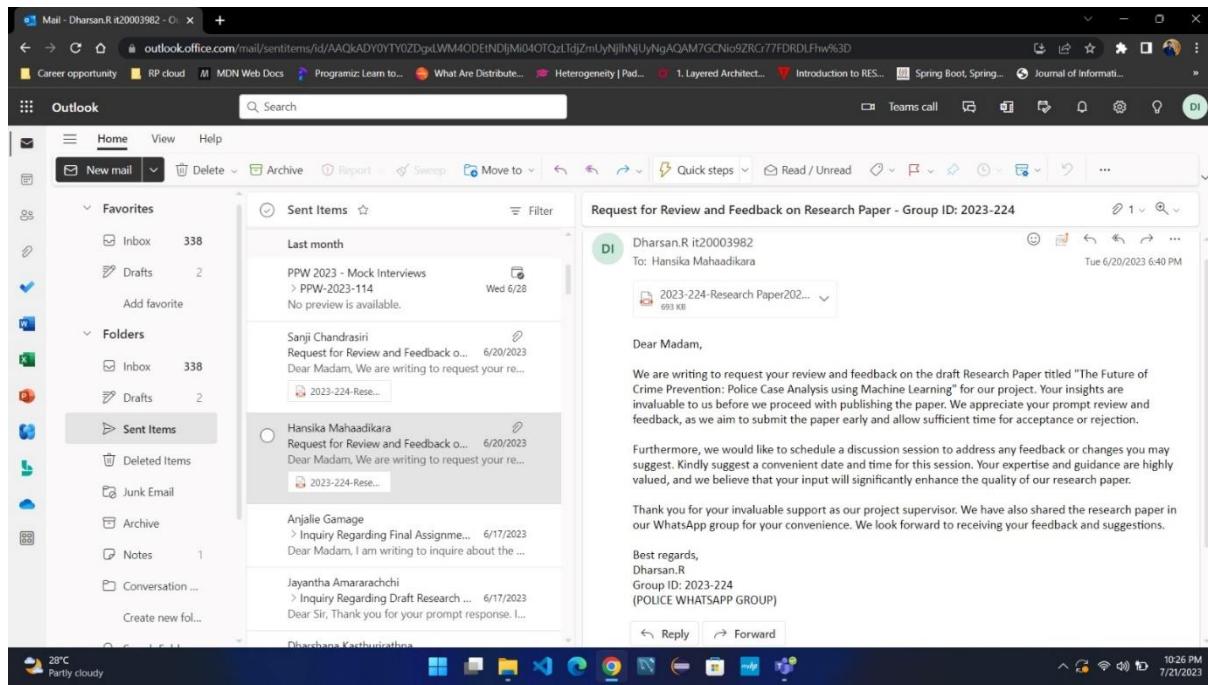
1. Microsoft Teams Details

1.1 Team Members

The screenshot shows the Microsoft Teams interface. On the left is a vertical sidebar with icons for Chat, Activity, Teams (selected), Assignments, Calendar, Calls, Files, and Apps. The main area displays a team named "2023-224 The future of crime pr...". At the top, there's a search bar and a tab bar with "Members" selected, followed by Channels, Analytics, Apps, and Tags. Below the tabs is a search bar for members and an "Add member" button. The "Owners" section lists one owner: Dharsan.R (it20003982) with the role "Owner". The "Members and guests" section lists three members/guests: Traveena C. (it20001452), Krishanthini M. (it19980928), and Anubama L. (it20068196), all with the role "Member".

1.2 Team Meetings with Supervisor

The screenshot shows a document titled "TAF_TMP-23-224.pdf" open in Adobe Acrobat Reader. The document contains two columns of text. The left column is attributed to "Anubama.L (IT20068196)" and discusses the sub-objective of clustering crimes against women using machine learning for crime forecasting. The right column discusses collecting and preprocessing crime data, identifying patterns and trends, and training predictive models to forecast future crimes. To the right of the document, there is a sidebar titled "Sign In" featuring five circular profile icons with initials and names: KI (Krishanthini M. it19980928), TI (Traveena C. it20001452), AL (Anubama Logarithman), DI (Dharsan.R it20003982), and HM (Hansika Mahadevkar). The desktop taskbar at the bottom shows various application icons.



POLICE - Research - 2023

Anubama, Hansika, Krish, Sanjeevi, Travee, You

20/06/2023

The Future of Crime Prevention: Police Case Analysis using Machine Learning

Group ID: 2023-224
Department of Computer Science and Software Engineering-C224
Dr. Lakshmi Chandrasiri
Technology SL
Jaffna, Sri Lanka

Group ID: 2023-224
Department of Computer Science and Software Engineering-C224
Dr. Lakshmi Chandrasiri
Technology SL
Jaffna, Sri Lanka

PDF 2023-224-Research Paper2023.pdf
8 pages • PDF • 693 kB

Dear @Hansika Mahaadikaara Madam Sliit Madam and @Sanjeevi Chandrasiri Madam -SL - co Supervisor Madam,

Herewith I have attached the draft Research Paper for your review. Your valuable feedback and suggestions on any necessary changes or modifications would be highly appreciated. If no changes are required, we can proceed with submitting the paper for publication.

I have sent an email to both of you with the subject "Request for Review and Feedback on Research Paper - Group ID: 2023-224" containing the PDF file.

To discuss any feedback or review issues, let's

Type a message

POLICE - Research - 2023

Anubama, Hansika, Krish, Sanjeevi, Travee, You

20/06/2023

Sanjeevi Chandrasiri Madam -SL - co Supervisor

Hansika Mahaadikaara Madam Sliit
Sanjeewi Shahikala Chandrasiri,
Faculty of Computing,
Sri Lanka Institute of Information Technology , Malabe , Sri Lanka

Sanjeevi not w please 9:30 pm

21/06/2023

Sanjeevi Chandrasiri Madam -SL - co Supervisor
Sanjeevi not w please

Okay madam 9:39 pm ✓

Hansika Mahaadikaara Madam Sliit
We r going to nominate your research project for NBSQA 8:44 am

Sanjeevi Chandrasiri Madam -SL - co Supervisor
Yes please prepare for a progress soon 8:50 am

Krish
This message was deleted 8:55 am

Type a message

 POLICE - Research - 2023

Anubama, Hansika, Krish, Sanjeevi, Travee, You

feedback, and any changes that need to be made.
The meeting c...Read more

20/06/2023 6:59 pm ✓

Hansika Mahaadikaara Madam Sliit
Write the acknowledgement also in passive voice
Referrence 1,2,4 ???
Referrence numbers should started by 1 8:18 pm
Reduce the number of pages to 6 8:18 pm
Okay madam. We will update the paper. 8:20 pm ✓

Hansika Mahaadikaara Madam Sliit
My name
Mahaadikara M.D.J.T. Hansika
Faculty of Computing,
Sri Lanka Institute of Information Technology , Malabe , Sri Lanka
Do not use titles 8:28 pm
Sanjeevi Shahikala Chandrasiri,
Faculty of Computing ,
Sri Lanka Institute of Information Technology , Malabe , Sri Lanka 8:30 pm
Okay madam!!

+ Type a message

 POLICE - Research - 2023

Anubama, Hansika, Krish, Sanjeevi, Travee, You

19/05/2023

Dear @Hansika Mahaadikaara Madam Sliit madam,
we wanted to kindly request a small discussion regarding our upcoming Progress Presentation 1, scheduled for the 26th from 3pm to 4pm. I would greatly appreciate your guidance and input to ensure a successful presentation.

If it's convenient for you, could we please schedule a brief Teams call to discuss the presentation? We are open to your availability, so please let us know a date and time that works best for you madam. 10:49 am ✓

20/05/2023

Hansika Mahaadikaara Madam Sliit
10am today 5:15 am
Okay madam 9:00 am ✓

Hansika Mahaadikaara Madam Sliit
10.20 hav a lecture till 10 9:19 am
Hansika Mahaadikaara Madam Sliit
10.20 hav a lecture till 10

+ Type a message

The screenshot shows a Microsoft Teams meeting summary for a session titled "PP2 - Discussion". The summary includes the following details:

- Participants:** 4 attended.
- Start and end time:** 10:02 AM - 10:35 AM.
- Meeting duration:** 32m 33s.
- Average attendance time:** 16m 44s.

Participants:

Name	First join	Last leave	In-meeting duration	Role
Dharsan.R it20003982 it20003982@my.sliit.lk	10:11 AM	10:35 AM	23m 29s	Organizer
Anubama Logarathinam anubama.logarathinam@telasoft.com	10:17 AM	10:35 AM	17m 26s	Presenter
Krishanthini M. it19980928 it19980928@my.sliit.lk	10:19 AM	10:35 AM	15m 37s	Presenter
Hansika Mahaadikara hansika.m@sliit.lk	10:24 AM	10:35 AM	10m 24s	Presenter

Additionally, We have met her physically on the 7th floor of FOC Main Building, SLIIT for Research discussions

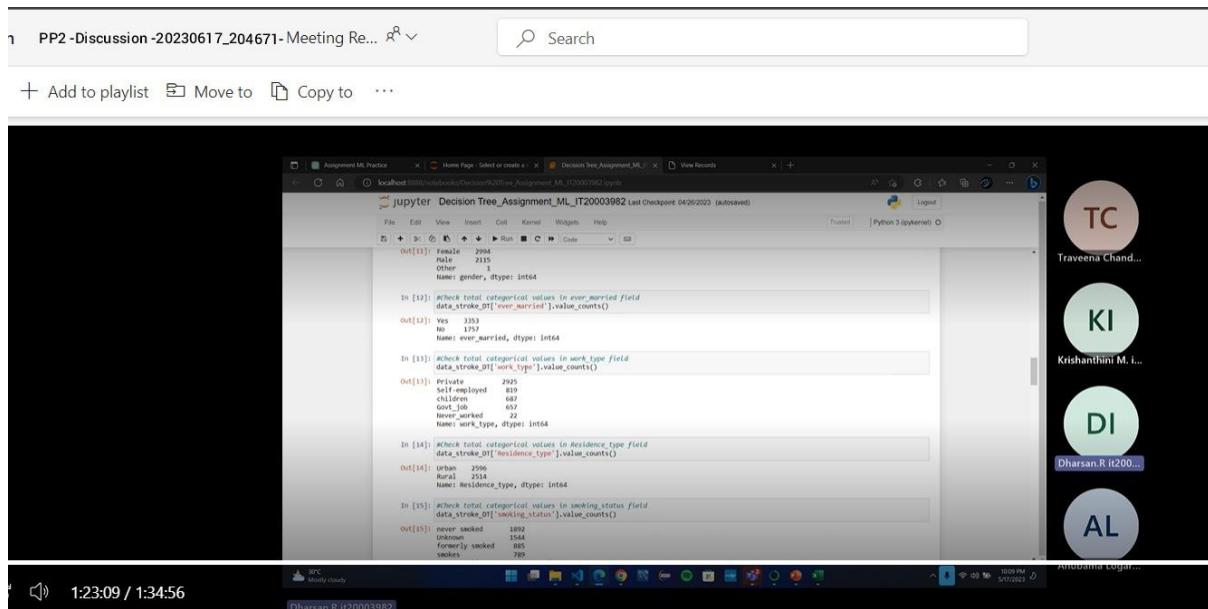
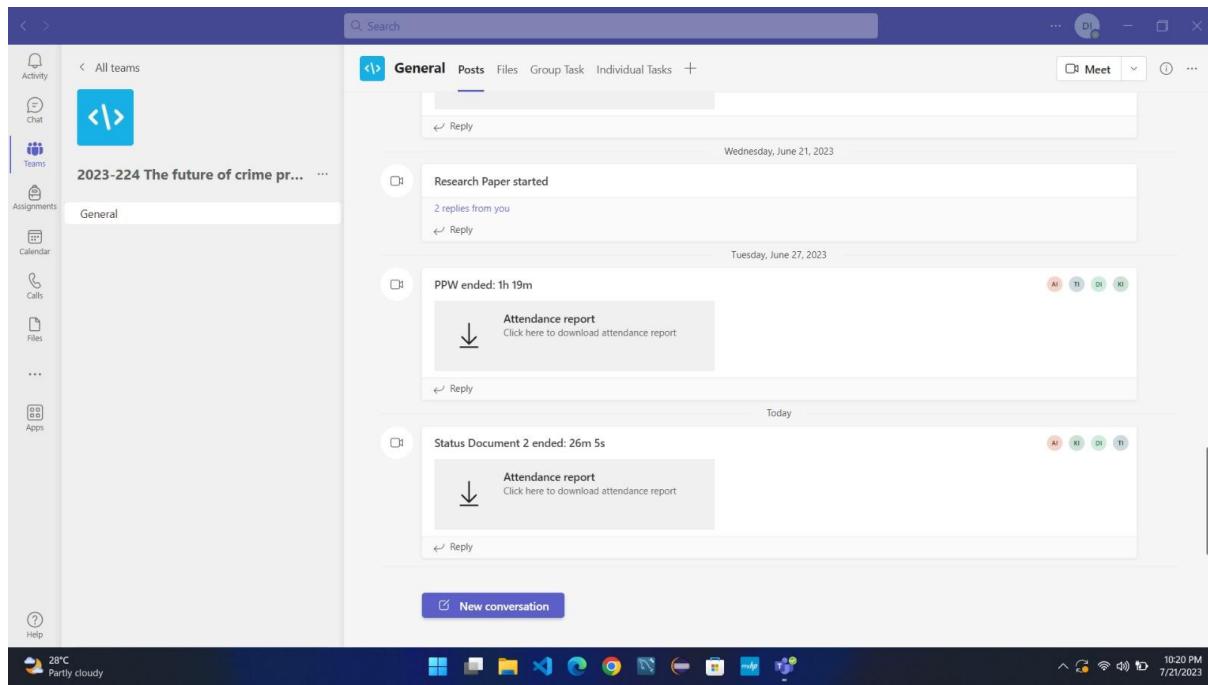
2. Team calls with Research Team

The screenshot shows the Microsoft Teams interface. On the left, there's a sidebar with icons for Chat, Activity, Teams, Assignments, Calendar, Calls, Files, and Apps. The main area displays a team named "2023-224 The future of crime pr...". Below the team name, it says "Research Project Group Discussion". A search bar at the top right has "Search" and a magnifying glass icon. Below the search bar are tabs for Members, Channels, Analytics, Apps, and Tags. A search bar for "Search for members" with a magnifying glass icon is followed by a "Add member" button. The "Members" section is expanded, showing:

Name	Title	Location	Tags	Role
Dharsan.R it20003982				Owner
Traveena C. it20001452				Member
Krishanthini M. it19980928				Member
Anubama L. it20068196				Member

The screenshot shows a Microsoft Excel spreadsheet titled "meetingAttendanceReport". The data is organized into columns: Full Name, Join Time, Leave Time, Duration, Email, Role, and Participant ID (UPN). The data rows are:

Full Name	Join Time	Leave Time	Duration	Email	Role	Participant ID (UPN)
Dharsan.R it20003982	7/21/2023, 7/21/2023, 10:09:36 P	59m 51s		it20003982@my.sliit.lk	Organizer	it20003982@my.sliit.lk
Traveena C. it20001452	7/21/2023, 7/21/2023, 10:09:34 P	55m 36s		it20001452@my.sliit.lk	Presenter	it20001452@my.sliit.lk
Anubama L. it20068196	7/21/2023, 7/21/2023, 10:09:32 P	56m 58s		it20068196@my.sliit.lk	Presenter	it20068196@my.sliit.lk
Krishanthini M. it19980928	7/21/2023, 7/21/2023, 10:09:36 P	49s		it19980928@my.sliit.lk	Presenter	it19980928@my.sliit.lk



Research Paper- Discussion with supervisor Chat Files Attendance Meeting Notes 4 more + Join 4 :≡

6/2 8:38 AM Meeting ended: 15s **Attendance**

6/2 8:40 AM Meeting started

Krishanthini M. it19980928 was invited to the meeting.

Anubama Logarathinam was invited to the meeting.

6/2 9:01 AM Recording has started

6/2 9:04 AM Recording has stopped. Saving recording...

Recording
Dharsan.R it20003982
3m 25s

This recording is set to expire. View or change the expiration date [here](#). [Learn more](#)

Hansika Mahaadikara was invited to the meeting.

All teams < General Posts Files Group Task Individual Tasks + Meet ...

2023-224 The future of crime pr... General

Meeting in "General" started Saturday, May 27, 2023

6 replies from you and IT20001452

Research Paper Discussion ended: 1h 1m Wednesday, June 14, 2023

Attendance report Click here to download attendance report

Research Paper started Wednesday, June 21, 2023

Dharsan.R it20003982 6/21 2:55 PM 2023-224 - Copy.docx

Meeting ended 1dm 0s

New conversation

28°C Partly cloudy 10:20 PM 7/21/2023

```

const PORT = process.env.PORT || 3000;
mongoose.connect('your mongo address', {
  useNewUrlParser: true,
  useUnifiedTopology: true,
});
// Define Todo schema
const todoschema = new mongoose.Schema({
  title: string,
  completed: Boolean,
});
const Todo = mongoose.model('Todo', todoschema);
app.use(express.json());
// API endpoints
app.get('/todos', async (req, res) => {
  try {
    const todos = await Todo.find();
    res.json(todos);
  } catch (error) {
    res.status(500).json({ error: 'Server error' });
  }
});
app.post('/todos', async (req, res) => {
  try {
    const { title, completed } = req.body;
    const todo = new Todo({
      title,
      completed,
    });
    await todo.save();
    res.json(todo);
  }
});

```

3. MS Teams Planner

3.1 Planner Board Group Tasks

Task title	Assigned to	Priority	Due	Bucket
Project website	KI, AI, DI, TI		11/5	To do
Research Paper	KI, AI, DI	!	8/15	To do
PP2 90%	KI, AI, DI	!	9/4	To do
Final Report viva & Presentation	KI, AI, DI		10/30	To do
Testing	KI, AI, DI		8/20	To do

Individual Tasks

The screenshot shows the Microsoft To Do application interface. On the left is a sidebar with various productivity icons: Chat, Activity, Teams, Assignments, Calendar, Calls, Files, and Apps. Under 'Shared plans' is a section for 'Planner' with a list item '2023-224 The future of crime prevent...'. Below that is a 'Group Task' under 'General' and an 'Individual Tasks' under 'General'. The main area is titled 'Individual Tasks' and lists several tasks:

Task title	Assigned to	Priority	Due	Bucket
Project website creation	Krishanthini M. it1998...	11/6		Crime Prediction
Final Presentation	Krishanthini M. it1998...	11/3		Crime Prediction
Research Logbook creation	Krishanthini M. it1998...	10/23		Crime Prediction
Final Report	Krishanthini M. it1998...	9/10		Crime Prediction
Final Submission & Viva (individual)	Krishanthini M. it1998...	10/26		Crime Prediction
Python Django web application -pp2	Krishanthini M. it1998...	9/4		Crime Prediction
Testing	Krishanthini M. it1998...	10/20		Crime Prediction

3.2 Completed Tasks Group Tasks

The screenshot shows the Microsoft To Do application interface. The sidebar is identical to the previous screenshot. The main area is titled 'To do' and lists completed tasks:

- + Add task
- Visiting lawyer to gather dataset
- Completed by Krishanthini M. it1...
- proposal-report (draft)
- Completed by Krishanthini M. it1...
- Project Charter
- Completed by Krishanthini M. it1...
- Topic Assessment form
- Completed by Krishanthini M. it1...
- Final Report
- Completed by Krishanthini M. it1...
- Research Paper

Individual Tasks

3.3 Teams Planner Schedule

Group Tasks

The screenshot shows the Microsoft Planner application interface. The main area is a monthly calendar for June 2023, with days from 28 to 30 at the top, followed by weeks 1 through 4, and then weeks 5 through 8. A specific task, "Research ...", is highlighted in green for June 20. The left sidebar has a navigation menu with items like Chat, Activity, Teams, Assignments, Calendar, Calls, Files, and Apps. Under "Tasks by Planner and To Do", there are sections for "My tasks", "Shared plans", and "Completed". The right sidebar includes sections for "To do" and "Completed". The bottom of the screen shows the Windows taskbar with various pinned icons and system status.

Screenshot of the Microsoft To Do app interface showing the "Tasks by Planner and To Do" view for July 2023.

The sidebar on the left includes links for Chat, Activity, Teams, Assignments, Calendar, Calls, Files, Tasks by Planner, and Apps.

The main area displays a calendar for July 2023. A task titled "NBQSA pr..." is listed under the 11th of July. The "Month" tab is selected.

On the right, there are sections for "Unscheduled tasks" (with a "+ Add task" button), "To do" (with a dropdown menu), and "Completed".

The bottom status bar shows the date as 7/23/2023, the time as 10:49 PM, the weather as 81°F Mostly cloudy, and system icons.

Screenshot of the Microsoft To Do app interface showing the "Tasks by Planner and To Do" view for August 2023.

The sidebar on the left includes links for Chat, Activity, Teams, Assignments, Calendar, Calls, Files, Tasks by Planner, and Apps.

The main area displays a calendar for August 2023. A task titled "Research ..." is listed under the 15th of August. Another task titled "Testing" is listed under the 20th of August. The "Month" tab is selected.

On the right, there are sections for "Unscheduled tasks" (with a "+ Add task" button), "To do" (with a dropdown menu), and "Completed".

The bottom status bar shows the date as 7/23/2023, the time as 10:50 PM, the weather as 81°F Mostly cloudy, and system icons.

This screenshot shows the Microsoft Planner interface for the month of September 2023. The left sidebar contains navigation links for Chat, Activity, Teams, Assignments, Calendar, Calls, Files, Apps, and Help. The main area displays a calendar view with tasks scheduled. A task titled "PP2 90%" is shown for September 4th, and another task titled "Final Report" is shown for September 11th. The right sidebar includes sections for "Unscheduled tasks", "To do", and "Completed". The bottom status bar shows the date as 7/23/2023, the time as 10:51 PM, and the weather as 81°F Mostly cloudy.

This screenshot shows the Microsoft Planner interface for the month of October 2023. The left sidebar is identical to the previous screenshot. The main area displays a calendar view with tasks scheduled. A task titled "Final Repo..." is shown for October 31st, and another task titled "Project webs..." is shown for November 5th. The right sidebar includes sections for "Unscheduled tasks", "To do", and "Completed". The bottom status bar shows the date as 7/23/2023, the time as 10:52 PM, and the weather as 81°F Mostly cloudy.

The screenshot shows the Microsoft To Do Planner interface. On the left, there's a sidebar with various icons for Chat, Activity, Teams, Assignments, Calendar, Calls, Files, and Apps. The main area is titled "Tasks by Planner and To Do". It displays a calendar for November 2023. A task titled "Final Repo..." is listed for November 5th. Below the calendar, there's a section for "Project webs...". The right side of the screen shows sections for "Unscheduled tasks", "To do" (with a "New task" button), and "Completed" tasks.

Individual Tasks

This screenshot shows the Microsoft To Do Planner interface for June 2023. The sidebar and overall layout are identical to the previous screenshot. The calendar shows tasks for the month of June, with a specific task titled "Research ..." listed for June 20th. The right side of the screen shows sections for "Unscheduled tasks", "To do" (with a "New task" button), and "Completed" tasks, which include entries like "Crimes against women", "Crime Prediction", "Accident Prediction", and "Case Document Classification".

The screenshot shows the Microsoft Planner interface for July 2023. The left sidebar includes links for Chat, Activity, Teams, Assignments, Calendar, Calls, Files, and Apps. The main area displays a calendar view with tasks. A sidebar on the right lists 'Unscheduled tasks' under categories: To do, Crimes against women, Crime Prediction, Accident Prediction, Case Document Classification, and Completed. A task titled 'Status doc...' is listed under 'To do'.

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
25	26	27	28	29	30	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31	1	2	3	4	5

The screenshot shows the Microsoft Planner interface for August 2023. The left sidebar is identical to the July screenshot. The main area displays a calendar view with tasks. A sidebar on the right lists 'Unscheduled tasks' under categories: To do, Crimes against women, Crime Prediction, Accident Prediction, Case Document Classification, and Completed. A task titled 'Research ...' is listed under 'To do'.

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
30	31	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31	1	2
3	4	5	6	7	8	9

Screenshot of Microsoft Planner tasks for September 2023.

Tasks by Planner and To Do

My tasks: To Do

- Tasks
- My Day
- Important
- Planned
- Assigned to me
- Flagged Emails

Shared plans: Planner

- 2023-224 The future of crime prevent...
 - Group Task General
 - Individual Tasks General

Unscheduled tasks

+ Add task

To do

- Crimes against women
- Crime Prediction
- Accident Prediction
- Case Document Classification
- Completed

Month View: September 2023

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
27	28	29	30	31	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
1	2	3	4	5	6	7

81°F Mostly cloudy 11:12 PM 7/23/2023

Screenshot of Microsoft Planner tasks for October 2023.

Tasks by Planner and To Do

My tasks: To Do

- Tasks
- My Day
- Important
- Planned
- Assigned to me
- Flagged Emails

Shared plans: Planner

- 2023-224 The future of crime prevent...
 - Group Task General
 - Individual Tasks General

Unscheduled tasks

+ Add task

To do

- Crimes against women
- Crime Prediction
- Accident Prediction
- Case Document Classification
- Completed

Month View: October 2023

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	1	2	3	4
5	6	7	8	9	10	11

81°F Mostly cloudy 11:13 PM 7/23/2023

Tasks by Planner and To Do

My tasks To Do

- Tasks
- My Day
- Important
- Planned
- Assigned to me
- Flagged Emails

Shared plans Planner

- 2023-224 The future of crime prevent...
- Group Task General
- Individual Tasks General

Unscheduled tasks

To do

- Crimes against women
- Crime Prediction
- Accident Prediction
- Case Document Classification
- Completed

Final Present...

November 2023

Sunday Monday Tuesday Wednesday Thursday Friday Saturday

29	30	31	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	1	2
3	4	5	6	7	8	9

+ Add task

Help New list or plan

Type here to search

81°F Mostly cloudy 11:14 PM 7/23/2023

3.4 Teams Planner Charts

Group Tasks

Tasks by Planner and To Do

My tasks To Do

- Tasks
- My Day
- Important
- Planned
- Assigned to me
- Flagged Emails

Shared plans Planner

- 2023-224 The future of crime prevent...
- Group Task General
- Individual Tasks General

Status

4 Tasks left

Status	Count
Not started	0
In progress	4
Late	0
Completed	24

Bucket

30
25
20
15
10
5
0

To do

Task	Due Date	Team Members
logbook	10/30	T1, A1, K1, +1
Final Report viva & Presentation	10/30	T1, A1, K1, +1
Project website	11/05	T1, A1, K1, +1
Testing	09/06	T1, A1, K1, +1

Priority

30

+ Add task

Help New list or plan

Type here to search

78°F Mostly cloudy 1:32 PM 9/3/2023

Individual Tasks

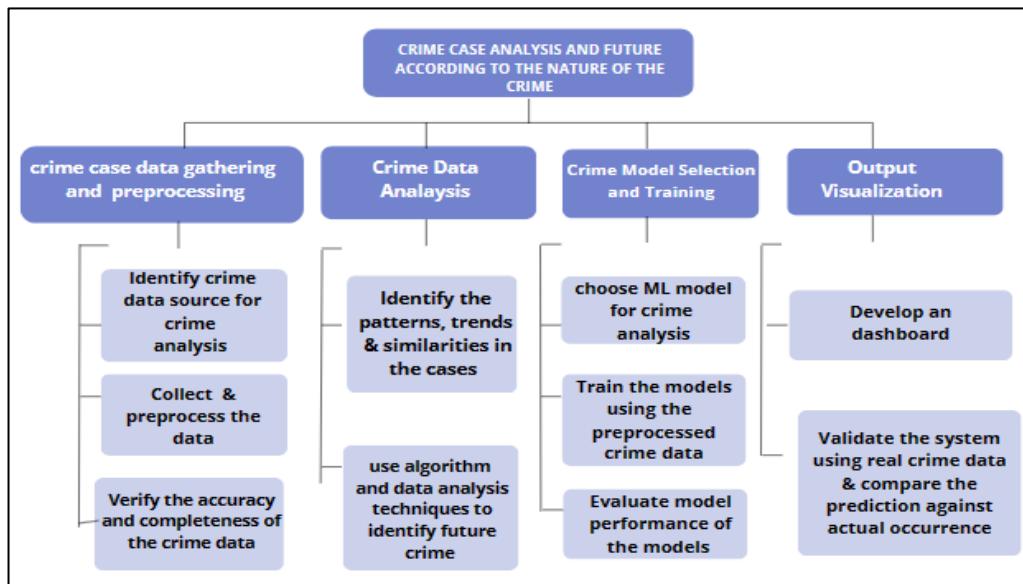
The screenshot shows the Microsoft Planner interface. On the left, there's a sidebar with various links like Chat, Activity, Teams, Assignments, Calendar, Calls, Files, and Apps. The main area is titled "Tasks by Planner and To Do". It features a circular progress bar indicating "7 Tasks left". Below it is a "Bucket" chart with a vertical axis from 0 to 18. The chart has four bars: "To do" (green, height ~3), "Crimes against women" (blue, height ~17), "Crime Prediction" (dark blue, height ~1), and "Case Document Classification" (black, height ~0). A "Priority" section shows a horizontal bar at level 25. To the right, there's a "Tasks" pane with a "+ Add task" button and a list of items under "To do" and "Crimes against women". A "Crime Prediction" section lists three items with due dates: "Project website creation" (11/06), "Final Presentation" (11/03), and "Research Logbook creation" (10/23). The bottom of the screen shows a Windows taskbar with icons for Start, Search, Task View, File Explorer, Mail, Photos, Videos, Edge, Chrome, and Task Manager.

4. Gantt Chart

Tasks	2022	2023											
	December	January	February	March	April	May	June	July	August	September	October	November	December
Topic Clarification													
Topic Assessment													
Project Charter													
Requirements Gathering													
Making of Project Proposal													
Project Presentation													
Proposal Report													
Progress Presentation-1													
Research Paper													
Final Report													
Progress Presentation-2													
Testing and Fixing issues													
Website Assessment and Research Book													
Final Report (Soft bound)													
Status Document Submission													
Final Presentation and Viva													
Final Report Submission													

5. Work Breakdown Structure

6. GitLab



6.1 Project Details

The screenshot shows the GitLab interface for the project 'policeAnalysis/policeAnalysis'. The left sidebar displays project navigation options like Project overview, Details, Activity, Releases, Repository, Issues, Merge Requests, CI / CD, Operations, Analytics, Wiki, Snippets, and Settings. The main content area shows the 'Details' page for the commit '2023-224'. The commit was authored by Krishanthini.M and has a timestamp of 51 minutes ago. The commit message is 'crime_updated'. Below the commit details is a table listing files and their last commit information:

Name	Last commit	Last update
...
accidentAnalysis	crime_updated	51 minutes ago
crime_app	crime_updated	51 minutes ago
myapp	crime_updated	51 minutes ago
policeAnalysis	crime_updated	51 minutes ago
police_analysis	crime_updated	51 minutes ago
static/images	added	2 days ago
DatasetAccident.csv	added pattern	1 day ago
crime_data2.csv	added	2 days ago
crime_data3.csv	added	2 days ago

The screenshot shows a GitLab repository page for the project 'policeAnalysis/policeAnalysis'. The sidebar on the left lists various project sections: Project overview, Repository (selected), Files, Commits, Branches, Tags, Contributors, Graph, Compare, Issues, Merge Requests, CI / CD, Operations, Analytics, and Collapse sidebar. The main content area displays a table of files with their last updated times:

..		53 minutes ago
accidentAnalysis	crime_updated	53 minutes ago
crime_app	crime_updated	53 minutes ago
myapp	crime_updated	53 minutes ago
policeAnalysis	crime_updated	53 minutes ago
police_analysis	crime_updated	53 minutes ago
static/images	added	2 days ago
DatasetAccident.csv	added pattern	1 day ago
crime_data2.csv	added	2 days ago
crime_data3.csv	added	2 days ago
db.sqlite3	crime_updated	53 minutes ago
manage.py	added	2 days ago
modified_file2.csv	added	2 days ago
women_dataset.csv	added	2 days ago

6.2 Project Members

The screenshot shows a GitLab activity feed for the project '2023-224'. The sidebar on the left lists various project sections: Project overview (selected), Activity (selected), Details, Releases, Repository, Issues, Merge Requests, CI / CD, Operations, Analytics, Wiki, Snippets, Settings, and Collapse sidebar. The main content area displays a list of team members who have joined the project:

Sanjeevi Sashikala Chandrasiri	@sanjeevichan	Joined project
Hansika Mahaadikara	@hansika.m	Joined project
traveena chandrasegar	@it20001452	Joined project
Anubama Logaratnam	@Anubama.L_IT20060196	Joined project
Krishanthini.M	@Krishanthini.M_IT19980928	Joined project

6.3 GitLab Commit

The screenshot shows the GitLab interface for the project 'master - 2023-224'. The sidebar on the left is collapsed. The main area displays a list of commits:

- 04 Sep, 2023 8 commits
 - mapping Krishanthini.M authored 4 minutes ago 65e13903
 - text_updated Krishanthini.M authored 7 minutes ago 6a56664f
 - mapping Krishanthini.M authored 10 minutes ago 037c1ce1
 - crime-analysis Krishanthini.M authored 12 minutes ago c3ef6e43
 - crime updated Krishanthini.M authored 32 minutes ago dee7796e
 - updated Dharsan.R_IT20003982 authored 3 hours ago 94fce673
 - Women crime updated anubama849 authored 4 hours ago ba3b8902
 - crime updated Krishanthini.M authored 5 hours ago 4461baaa
- 03 Sep, 2023 15 commits
 - Women -crime Form designs anubama849 authored 23 hours ago 470c66cb

The screenshot shows the GitLab interface for the project '2023-224'. The sidebar on the left is collapsed. The main area displays a list of commits:

- 2023-224 > 2023-224 > Commits
- master 2023 3 commits
 - crime_updated Krishanthini.M authored 43 minutes ago 70ae86b0
 - crime_updated Krishanthini.M authored 5 hours ago 7c16ebc5
 - updated police analysis Dharsan.R_IT20003982 authored 5 hours ago 431634a0
- 02 Sep, 2023 1 commit
 - added pattern Dharsan.R_IT20003982 authored 1 day ago 27834b1c
- 01 Sep, 2023 7 commits
 - modified template Dharsan.R_IT20003982 authored 1 day ago dddae0cf
 - modified template Dharsan.R_IT20003982 authored 1 day ago 98e3f630
 - modified template Dharsan.R_IT20003982 authored 1 day ago bdb34d93
 - modified view.pv

Commits · master - 2023-224 / 2023-224 · Not secure | gitlab.sliit.lk/2023-224/2023-224/-/commits/master

Gmail YouTube Maps IT3110 Industrial PL... JetBrains Account Form I-3A - OneDrive Mail - Krishanthini... MATLAB Home Proposal Presentat... Projects - Dashboard Sri Lanka Institute o...

GitLab

Projects Groups More

modified view.py
Dharsan.R_IT20003982 authored 1 day ago

modified view.py
Dharsan.R_IT20003982 authored 1 day ago

final code updated
Dharsan.R_IT20003982 authored 1 day ago

31 Aug, 2023 1 commit

added
Dharsan.R_IT20003982 authored 3 days ago

area mapping
Krishanthini.M authored 1 month ago

changes made on text doc
Krishanthini.M authored 1 month ago

23 Jul, 2023 1 commit

Updated
Dharsan.R_IT20003982 authored 1 month ago

18 May, 2023 2 commits

Update README.md
Dharsan.R_IT20003982 authored 3 months ago

Add README.md
Dharsan.R_IT20003982 authored 3 months ago

Type here to search

78°F Mostly cloudy 8:10 PM 9/3/2023

Contributors · 2023-224 / 2023 · Not secure | gitlab.sliit.lk/2023-224/2023-224/-/graphs/master

Gmail YouTube Maps IT3110 Industrial PL... JetBrains Account Form I-3A - OneDrive Mail - Krishanthini... MATLAB Home Proposal Presentat... Projects - Dashboard Sri Lanka Institute o...

GitLab

Projects Groups More

Commits Avg: 327m - Max: 14

Dharsan.R_IT20003982
14 commits (it20003982@my.sliit.lk)

Krishanthini
10 commits (it19980928@my.sliit.lk)

anubama849
12 commits (anubamalogarithnam@gmail.com)

Type here to search

76°F Partly cloudy 8:38 PM 9/4/2023

THE FUTURE OF CRIME PREVENTION: POLICE CASE ANALYSIS USING MACHINE LEARNING

(Analyze and Classify Similar Case Documents
and Predict Category)

Project ID:

2023-224

Status Document – 2

IT20001452 - Traveena Chandrasegar

Supervisor – Ms. Hansika Mahaadikara

Co-Supervisor - Ms. Sanjeevi Chandrasiri

BSc (Hons) - Information Technology Specializing in
Software Engineering

Department of Computer Science and Software Engineering (CSSE)
Sri Lanka Institute of Information
Technology Sri Lanka

May 2023

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1. Microsoft Teams Details

1.1 Team Members

The screenshot shows the Microsoft Teams interface for a team named "2023-224 The future of crime prevention: police case analysis using machine learn...". The left sidebar shows various team channels: General, Activity, Chat, Teams, Assignments, Calendar, Calls, Files, and Apps. The main area displays the team members:

Name	Title	Location	Tags	Role
Dharsan.R. it20003982				Owner
Traveena C. it20001452				Member
Krishanthini M. it19980928				Member
Anubama L. it20068196				Member

1.2 Team Meetings with Supervisor

The screenshot shows the Microsoft Teams interface for a meeting titled "PP1 - Discussion". The left sidebar shows various team channels: Chat, Teams, Assignments, Calendar, Calls, Files, and Apps. The main area displays the meeting summary:

Start and end time	Meeting duration	Average attendance time
10:02 AM - 10:35 AM	32m 33s	16m 44s

Participants:

Name	First join	Last leave	In-meeting duration	Role
Dharsan.R. it20003982 it20003982@myslit.lk	10:11 AM	10:35 AM	23m 29s	Organizer
Anubama Logarathinam anubama.logarathinam@telasoft.com	10:17 AM	10:35 AM	17m 26s	Presenter
Krishanthini M. it19980928 it19980928@myslit.lk	10:19 AM	10:35 AM	15m 37s	Presenter
Hansika Mahaadikara hansika.m@slit.lk	10:24 AM	10:35 AM	10m 24s	Presenter
Traveena C. it20001452 it20001452@myslit.lk	10:24 AM	10:35 AM	10m 24s	Presenter

Abstract— Law enforcement agencies and police departments face challenges in analyzing and preventing accidents and crimes. This research presents a comprehensive machine learning system, "The Future of Crime Prevention: Police Case Analysis," to enhance public safety. The system comprises components like accident case analysis, crime analysis, case document classification, and crimes against women analysis. It leverages various machine learning techniques to predict accident causes, analyze criminal cases, automate document classification, and cluster crimes against women. The objectives encompass bolstering public safety, enabling proactive decision making, anticipating future crime rates, and optimizing document analysis. This research strives to provide effective tools for crime and accident prevention, addressing traditional challenges faced by police departments and crime divisions.

Keywords: Police case analysis, Accident analysis, Crime analysis, Case document classification, Crimes against women, Future prediction, Machine learning model

I. INTRODUCTION

Law enforcement agencies in Sri Lanka face significant challenges in effectively analyzing and preventing accidents and crimes. Traditional methods of case analysis and investigation are time-consuming, error-prone, and lack predictive capabilities. This research presents "The Future of Crime Prevention: Police Case Analysis using Machine Learning," a solution that leverages machine learning algorithms to revolutionize police case analysis and enhance public safety.

The proposed solution integrates advanced machine learning algorithms to transform how police departments analyze and prevent accidents and crimes. By harnessing the power of data analytics and predictive modeling, this project equips law enforcement agencies with valuable tools and insights to identify patterns and take preventive measures.

The primary objective of the project is to develop a machine-learning system capable of analyzing and predicting accident percentages by location for future years. This system emphasizes the future of crime prevention, particularly crimes against women. Machine learning algorithms are employed to cluster crimes against women, predict future crimes, and enable proactive measures to ensure women's safety and promote gender equality. By leveraging advanced technology and data analytics, law enforcement agencies can optimize resource allocation, enhance predictive capabilities, and significantly improve public safety.

By integrating machine learning algorithms into police case analysis, this research project aims to overcome the challenges faced by traditional methods. It provides law enforcement agencies with advanced analytical tools, predictive capabilities, and efficient systems to allocate resources effectively, prevent accidents and crimes, and ultimately enhance public safety in Sri Lanka.

II. RELATED WORK

Numerous studies have extensively explored approaches in police accident case analysis, crime analysis, text classification, and crimes against women.

L. Wu and Peng [1] developed a traffic accident prediction model using spiking neural networks (SNNs) and convolutional neural networks (CNNs), achieving high prediction accuracy. V. Prasannamurthy, H. Singh, R. Chaitanya, and N. Govindaraj [2] conducted research on road accident analysis using geo-information technology to identify accident hotspots and employed spatial statistics, including Moran's I and Getis-Ord G^{*} statistics, within a GIS-based framework to assess spatial clustering, aiding traffic management and safety decisions. Manzoor et al. [3] proposed RUCNN, a decision-level fusion model combining Random Forest and Convolutional Neural Network, achieving superior

6/2 8:38 AM Meeting ended: 15s

Attendance

- 6/2 8:40 AM Meeting started
- Krishanthini M. it19980928 was invited to the meeting.
- Anubama Logarithinam was invited to the meeting.
- 6/2 9:01 AM Recording has started
- 6/2 9:04 AM Recording has stopped. Saving recording...

Recording
Dharsan.R it20003982

This recording is set to expire. View or change the expiration date [here](#). [Learn more](#)

Hansika Mahaadikara was invited to the meeting.

2. Teams calls with Research Team

The screenshot shows a Python Django project named 'project_name' open in a code editor. The code editor displays a template file 'predict.html' with HTML and Django template code. Below the code editor are tabs for 'PROBLEMS', 'OUTPUT', 'DEBUG CONSOLE', and 'TERMINAL'. The 'TERMINAL' tab shows the following output:

```
Exception ignored in: function Variable._del__ at 0x0000020C1781940
Traceback (most recent call last):
  File "C:\Users\Bars\Apporta\local\Programs\Python\Python311\lib\site-packages\django\utils\functional.py", line 410, in __del__
    if self._tk.getboolean(self._tk.call("info", "exists", self._name)):
           ^^^^^^^^^^
RuntimeError: main thread is not in main loop
Tcl Asynchronous: async handler deleted by the wrong thread      python manage.py runserver
>>> E1531077VWS3MP>>> T4000>accident code\sample\project_name
watching for file changes with statreload
Performing system checks...
System check identified no issues (0 silenced).
May 17, 2023 - 21:12:27
Django version 4.2.1, using settings 'project_name.settings'
Starting development server at http://127.0.0.1:8000/
Quit the server with CTRL-BREAK.
```

On the right side of the interface, there are three circular profile icons with initials: 'TC' (Traveena Chand...), 'AL' (Anubama Logar...), and 'KI' (Krishanthini M. I...). At the bottom left, there is a 'OUTLINE' button.

PP2 -Discussion -20230617_204671-Meeting Re... R ✓

Search

+ Add to playlist M Move to C Copy to ...

jupyter Decision Tree_Assignment_ML_IT20003982 Last Checkpoint: 04/26/2023 (autosaved)

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3 (pykerneled) 0

In [11]: `#check total categorical values in ever_married field
data_stroke_01['ever_married'].value_counts()`

Out[11]: `Female 2994
Male 2115
Other 3
Name: gender, dtype: int64`

In [12]: `#check total categorical values in ever_married field
data_stroke_01['ever_married'].value_counts()`

Out[12]: `Yes 3353
No 1757
Name: ever_married, dtype: int64`

In [13]: `#check total categorical values in work_type field
data_stroke_01['work_type'].value_counts()`

Out[13]: `private 2925
self-employed 819
children 687
Govt_job 657
Never_worked 22
Name: work_type, dtype: int64`

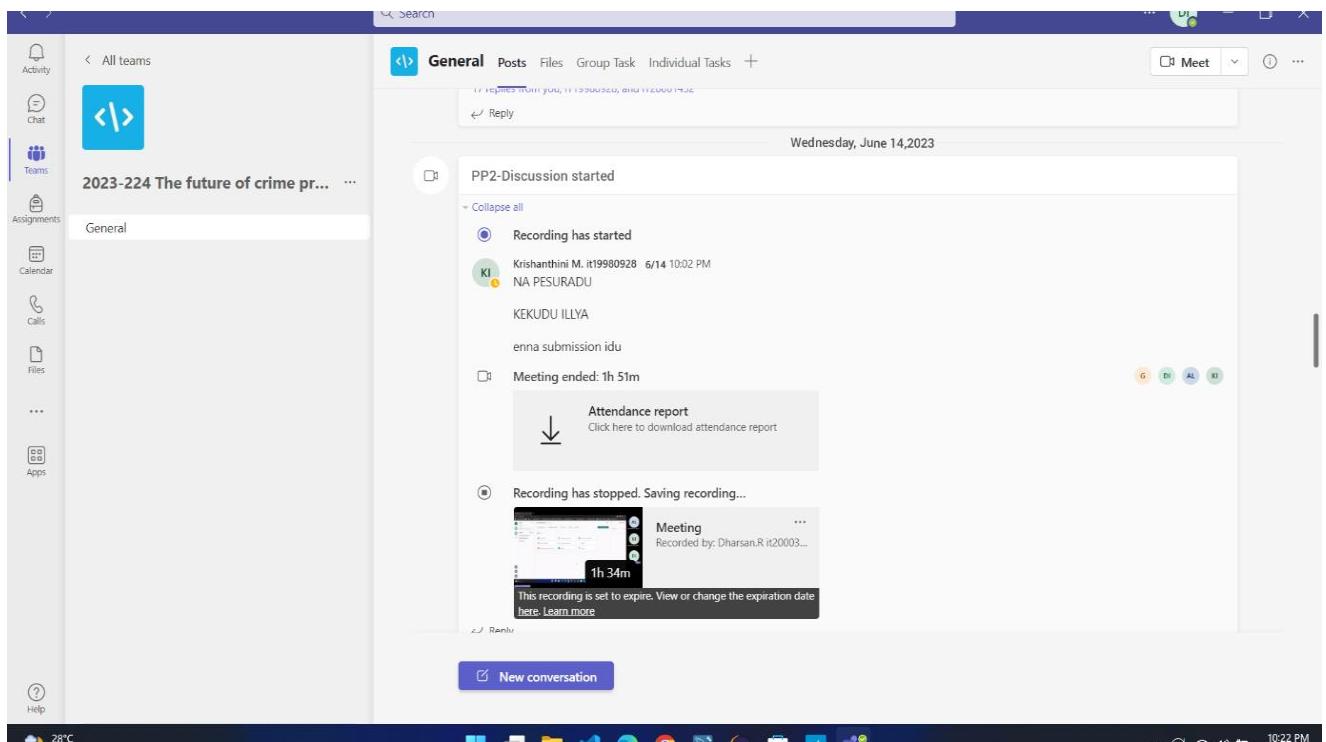
In [14]: `#check total categorical values in Residence_type field
data_stroke_01['Residence_type'].value_counts()`

Out[14]: `urban 2596
Rural 2518
Name: Residence_type, dtype: int64`

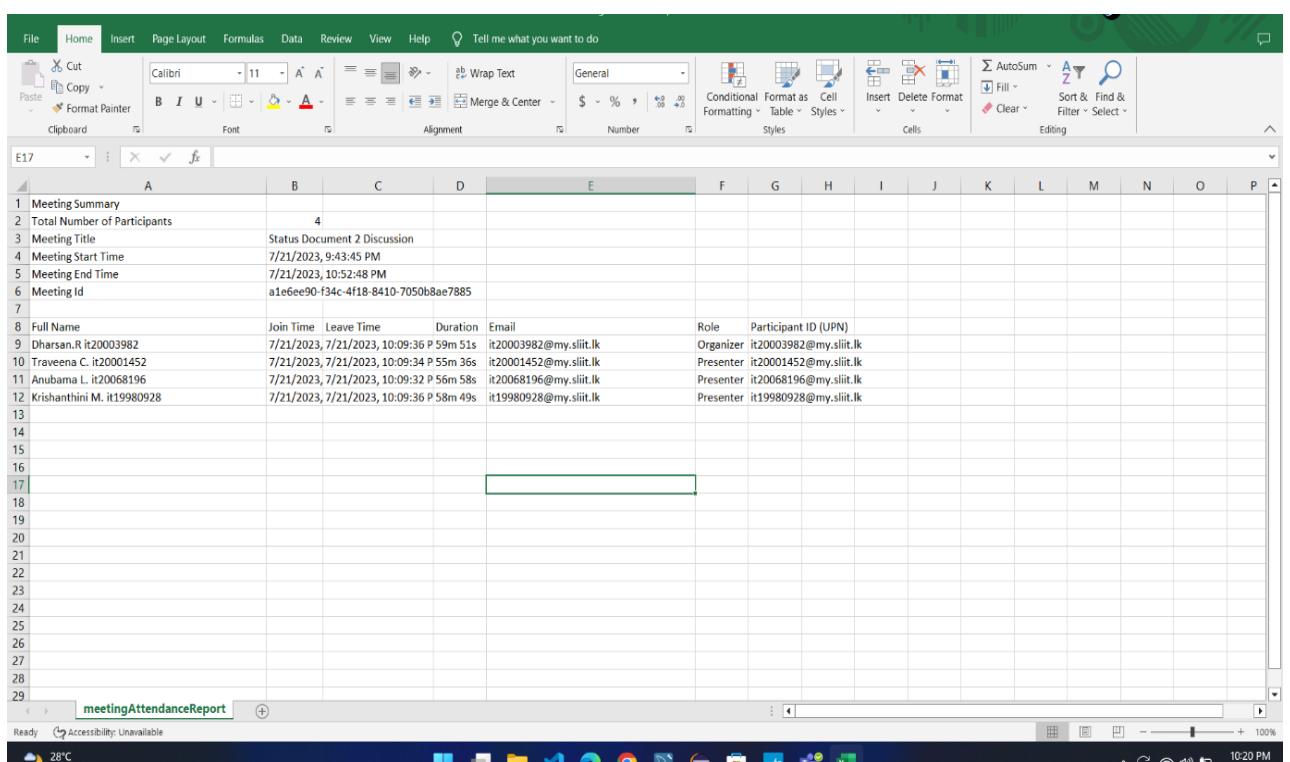
In [15]: `#check total categorical values in smoking_status field
data_stroke_01['smoking_status'].value_counts()`

Out[15]: `never smoked 1892
Unknown 1544
formerly smoked 885
smokes 789`

Traveena Chand...
Krishanthini M. i...
Dharsan.R.it200...
Anubhava Logar...



A screenshot of a Microsoft Teams meeting summary page. The title of the meeting is "PP2-Discussion started". The summary shows that recording has started and stopped. A recording link is provided, which includes a thumbnail of the meeting screen and a duration of 1h 34m. The recording is set to expire soon. The Teams sidebar on the left shows various team channels like "All teams", "General", and "2023-224 The future of crime pr...". The bottom status bar shows the date as Wednesday, June 14, 2023, and the time as 10:22 PM.



A screenshot of a Microsoft Excel spreadsheet titled "meetingAttendanceReport". The spreadsheet contains the following data:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	Meeting Summary															
2	Total Number of Participants				4											
3	Meeting Title				Status Document 2 Discussion											
4	Meeting Start Time				7/21/2023, 9:43:45 PM											
5	Meeting End Time				7/21/2023, 10:52:48 PM											
6	Meeting Id				a1e6ee90-f34c-4f18-8410-7050b8ae7885											
8	Full Name	Join Time	Leave Time	Duration	Email	Role	Participant ID (UPN)									
9	Dharsan.R.it20003982	7/21/2023, 7/21/2023, 10:09:36 P	59m 51s		it20003982@my.slilt.lk	Organizer	it20003982@my.slilt.lk									
10	Traveena C. it20001452	7/21/2023, 7/21/2023, 10:09:34 P	55m 36s		it20001452@my.slilt.lk	Presenter	it20001452@my.slilt.lk									
11	Anubama L. it20068196	7/21/2023, 7/21/2023, 10:09:32 P	56m 58s		it20068196@my.slilt.lk	Presenter	it20068196@my.slilt.lk									
12	Krishanthini M. it19980928	7/21/2023, 7/21/2023, 10:09:36 P	58m 49s		it19980928@my.slilt.lk	Presenter	it19980928@my.slilt.lk									

The screenshot shows the Microsoft Teams interface. On the left is the sidebar with icons for Activity, Chat, Teams, Assignments, Calendar, Calls, Files, and Apps. The main area shows the 'General' channel of a team named '2023-224 The future of crime pr...'. The 'Posts' tab is selected. There are two visible posts:

- Research Paper started** (Wednesday, June 21, 2023)
 - 2 replies from you
 - Click here to download attendance report
- PPW ended: 1h 19m** (Tuesday, June 27, 2023)
 - Attendance report
Click here to download attendance report
- Status Document 2 ended: 26m 5s** (Today)
 - Attendance report
Click here to download attendance report

A blue 'New conversation' button is at the bottom.

This screenshot shows the same Microsoft Teams interface as the previous one, but the 'Posts' tab is not selected. The first post from 'Research Paper started' is expanded to show more details:

- Research Paper started** (Wednesday, June 21, 2023)
 - Dharsan.R it20003982 6/21 2:55 PM
2023-224 - Copy.docx
 - Meeting ended: 14m 9s
 - Attendance report
Click here to download attendance report
- PPW ended: 1h 19m** (Tuesday, June 27, 2023)
 - Attendance report
Click here to download attendance report
- Status Document 2 ended: 26m 5s** (Today)
 - Attendance report
Click here to download attendance report

A blue 'New conversation' button is at the bottom.

```
index.js
1 // Connect to MongoDB
2 const PORT = process.env.PORT || 3000;
3
4 mongoose.connect('your mongo address', {
5   useNewUrlParser: true,
6   useUnifiedTopology: true,
7 });
8
9 // Define Todo schema
10 const todoschema = new mongoose.Schema({
11   title: String,
12   completed: Boolean,
13 });
14
15 const Todo = mongoose.model('Todo', todoschema);
16
17 app.use(express.json());
18
19 // API endpoints
20 app.get('/todos', async (req, res) => {
21   try {
22     const todos = await Todo.find();
23     res.json(todos);
24   } catch (error) {
25     res.status(500).json({ error: 'server error' });
26   }
27 })
28
29 app.post('/todos', async (req, res) => {
30   try {
31     const { title, completed } = req.body;
32     const todo = new Todo({
33       title,
34       completed,
35     });
36     await todo.save();
37     res.json(todo);
38   }
39 })
40
41 
```

3. Microsoft Teams Planner

3.1 Planner Board

Group Tasks

The screenshot shows a Microsoft Teams Planner board titled "General". The "Group Task" tab is selected. The "To do" section contains five tasks:

- PP2 90% (due 09/06)
- Final Report viva & Presentation (due 10/30)
- Project website (due 11/05)
- Testing (due 09/06)
- Completed tasks: 23

A vertical orange line highlights the "Add new bucket" button in the top right corner of the "To do" section.

Individual Tasks

The screenshot shows a Microsoft Teams Planner board titled "General". The "Individual Tasks" tab is selected. The board displays tasks assigned to four individuals:

- Traveena C. it20001452**:
 - + Add task
 - Final Report (Case Document Classification, due 09/10)
 - Logbook (Case Document Classification, due 11/10)
 - Final Submission & Viva - Individual (Case Document Classification, due 10/26)
 - Application 100% Completion - Individual (Case Environment Classification, due 10/26)
- Anubama L. it20068196**:
 - + Add task
 - Final Submission & Viva (Individual) (Crimes against women, due 10/26)
 - Final presentation & Viva (To do, due 11/03)
 - Final report-Individual (To do, due 09/10)
- Dharsan.R it20003982**:
 - + Add task
 - Python Django web application - PP2(90% Completed) (Accident Prediction, due 09/06)
 - Final Submission & Viva (Individual) (Accident Prediction, due 11/08)
 - logbook (Accident Prediction, due 11/10)
 - Web Application - Individual Component - 100% - PP2 (due 10/23)
- Krish**:
 - + Add
 - Project Crime Pred (due 11/06)
 - Final I Crime Pred (due 11/03)
 - Resea Crime Pred (due 10/23)
 - Final I Crime Pred (due 10/23)

A message at the bottom states: "We're sorry, but Planner is temporarily in read-only mode. Please try again later."

The screenshot shows a Microsoft Planner interface for a team named 'General'. On the left is a vertical sidebar with icons for Activity, Chat, Teams, Assignments, Calendar, Calls, Files, and Apps. The main area displays a board titled '2023-224 The future of crime pr...'. A message at the bottom states: 'We're sorry, but Planner is temporarily in read-only mode. Please try again later.' The interface includes a search bar, navigation tabs for General, Posts, Files, Group Task, Individual Tasks, and a '+' button. Filter and sorting options are also present.

Unassigned

+ Add task

Traveena C. it20001452

+ Add task

Final Report
Case Document Classification
09/10

Logbook
Case Document Classification
11/10

Final Submission & Viva - Individual
Case Document Classification
10/26

Application 100% Completion - Individual
Case Document Classification

We're sorry, but Planner is temporarily in read-only mode. Please try again later.

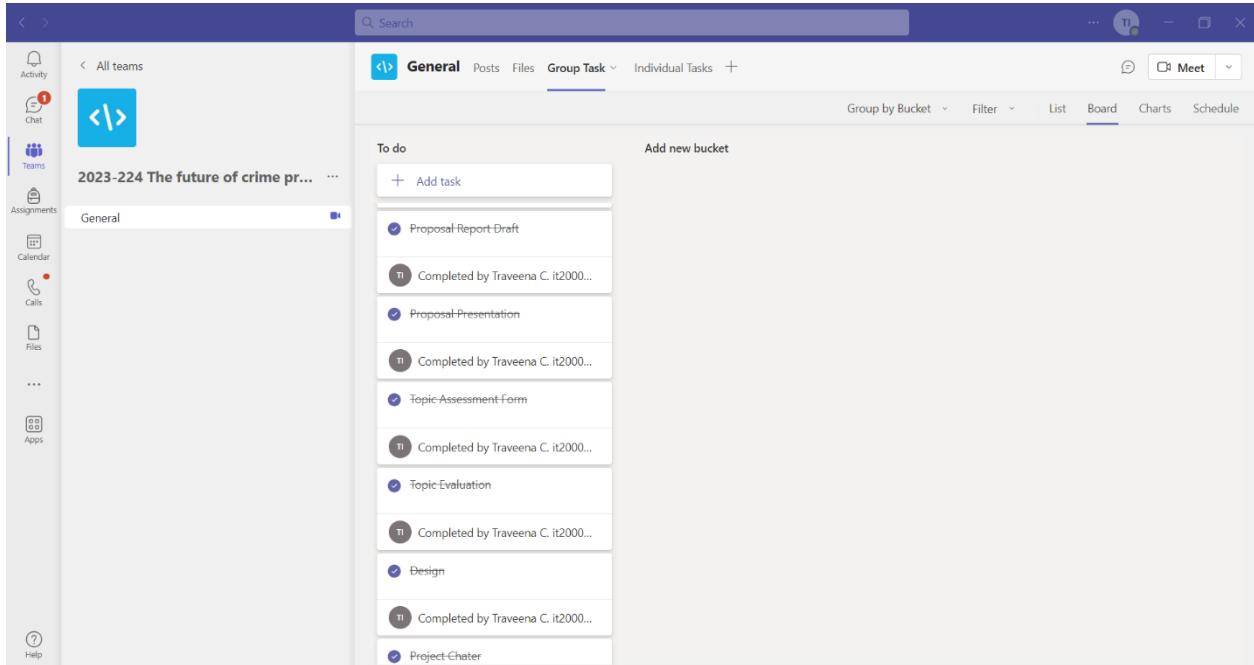
This screenshot is identical to the one above, showing the Microsoft Planner interface in read-only mode. The main difference is the list of tasks under the 'Unassigned' section:

- Application 100% Completion - Individual (due 10/26)
- Full Code Implementation - PP2 (To do, due 09/06)
- Report (To do, due 09/10)
- Final Report - Individual (due 09/10)

The message at the bottom remains: 'We're sorry, but Planner is temporarily in read-only mode. Please try again later.'

3.2 Completed Tasks

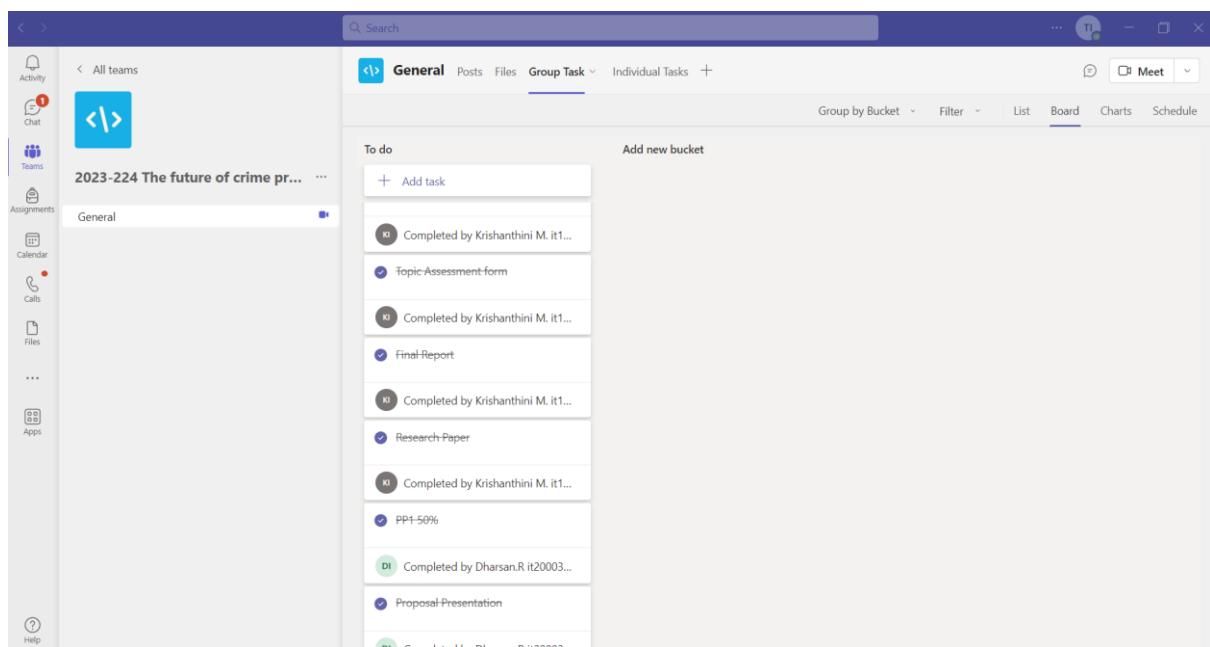
Group Tasks



This screenshot shows the Microsoft Teams interface for a group task board. The left sidebar includes icons for Activity, Chat, Teams, Assignments, Calendar, Calls, Files, and Apps. The main area displays a team named "2023-224 The future of crime pr...". The "General" tab is selected under "Group Task". The "To do" list contains the following completed tasks:

- Proposal-Report Draft
- Completed by Traveena C. it2000...
- Proposal-Presentation
- Completed by Traveena C. it2000...
- Topic Assessment Form
- Completed by Traveena C. it2000...
- Topic Evaluation
- Completed by Traveena C. it2000...
- Design
- Completed by Traveena C. it2000...
- Project-Charter

The top navigation bar includes "Search", "Meet", "List", "Board" (which is selected), "Charts", and "Schedule".



This screenshot shows the Microsoft Teams interface for a group task board. The left sidebar includes icons for Activity, Chat, Teams, Assignments, Calendar, Calls, Files, and Apps. The main area displays a team named "2023-224 The future of crime pr...". The "General" tab is selected under "Group Task". The "To do" list contains the following completed tasks:

- Completed by Krishanthini M. it1...
- Topic-Assessment-form
- Completed by Krishanthini M. it1...
- Final-Report
- Completed by Krishanthini M. it1...
- Research Paper
- Completed by Krishanthini M. it1...
- PP1-50%
- Completed by Dharsan.R it20003...
- Proposal-Presentation
- Completed by Dharsan.R it20003...

The top navigation bar includes "Search", "Meet", "List", "Board" (which is selected), "Charts", and "Schedule".

This screenshot shows a Microsoft Teams group task board titled "General". The board has a "To do" column and an "Add new bucket" section. The "To do" column contains the following tasks:

- + Add task
- Design
- Completed by Traveena C. it2000...
- Project-Charter
- Completed by Traveena C. it2000...
- Project-Charter
- Completed by Dharsan.R it2003...
- Design
- Completed by Krishanthini M. it1...
- NBQSA presentation
- Completed by Dharsan.R it2003...
- Design

The sidebar on the left shows the team navigation bar with various icons for Activity, Chat, Teams, Assignments, Calendar, Calls, Files, and Apps.

Individual Tasks

This screenshot shows a Microsoft Teams individual tasks board titled "General". The board has several columns: "Case Document Classification", "To do", "Crimes against women", and "Crime Predictions".

The "Case Document Classification" column contains the following tasks:

- + Add task
- Model-training-PP2
- Completed by Traveena C. it2000...
- UI-Completion
- Completed by Traveena C. it2000...
- Prediction-model-PP2
- Completed by Traveena C. it2000...
- Past-Research-Document-Review
- Completed by Dharsan.R it2003...
- Application-50%-Completion-Individual
- Completed by Dharsan.R it2003...
- Model-Testing-2

The "To do" column contains the following tasks:

- + Add task
- Project Website - Individual
- Completed by Traveena C. it2000...
- Implementation - PP1
- Completed by Dharsan.R it2003...
- Status Document - Individual
- Completed by Dharsan.R it2003...
- Research Paper
- Completed by Dharsan.R it2003...
- Referring Research Papers
- Completed by Traveena C. it2000...

The sidebar on the left shows the team navigation bar with various icons for Activity, Chat, Teams, Assignments, Calendar, Calls, Files, and Apps.

The screenshot shows a Microsoft Teams interface with the 'Individual Tasks' tab selected. On the left, there's a sidebar with various icons for Activity, Chat, Teams, Calendar, Calls, Files, and Apps. The main area displays a 'Case Document Classification' column and a 'To do' column.

Case Document Classification

- + Add task
- Model Testing-2 (Completed by Traveena C. it2000...)
- Model Testing-1 (Completed by Dharsan.R it2000...)
- Classification Model Training (Completed by Dharsan.R it2000...)
- PDF-Text-Extraction (Completed by Dharsan.R it2000...)
- Dataset Gathering (Completed by Traveena C. it2000...)

To do

- + Add task
- Completed by Dharsan.R it2000... (Completed by Dharsan.R it2000...)
- Research-Paper (Completed by Dharsan.R it2000...)
- Referring Research-Papers (Completed by Traveena C. it2000...)
- Proposal-Report (Completed by Traveena C. it2000...)
- Proposal-Presentation (Completed by Traveena C. it2000...)

Crimes against women

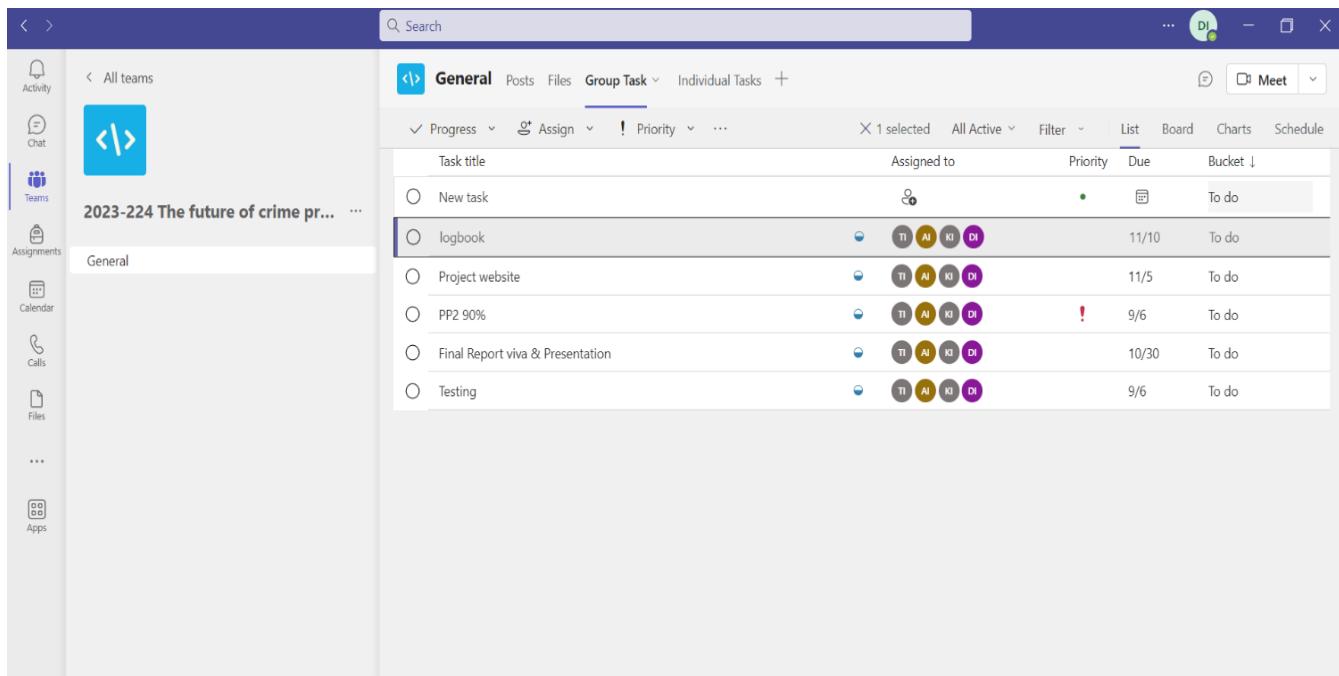
- + Add task

Crime Predict

- + Add task

3.3 Pending Tasks

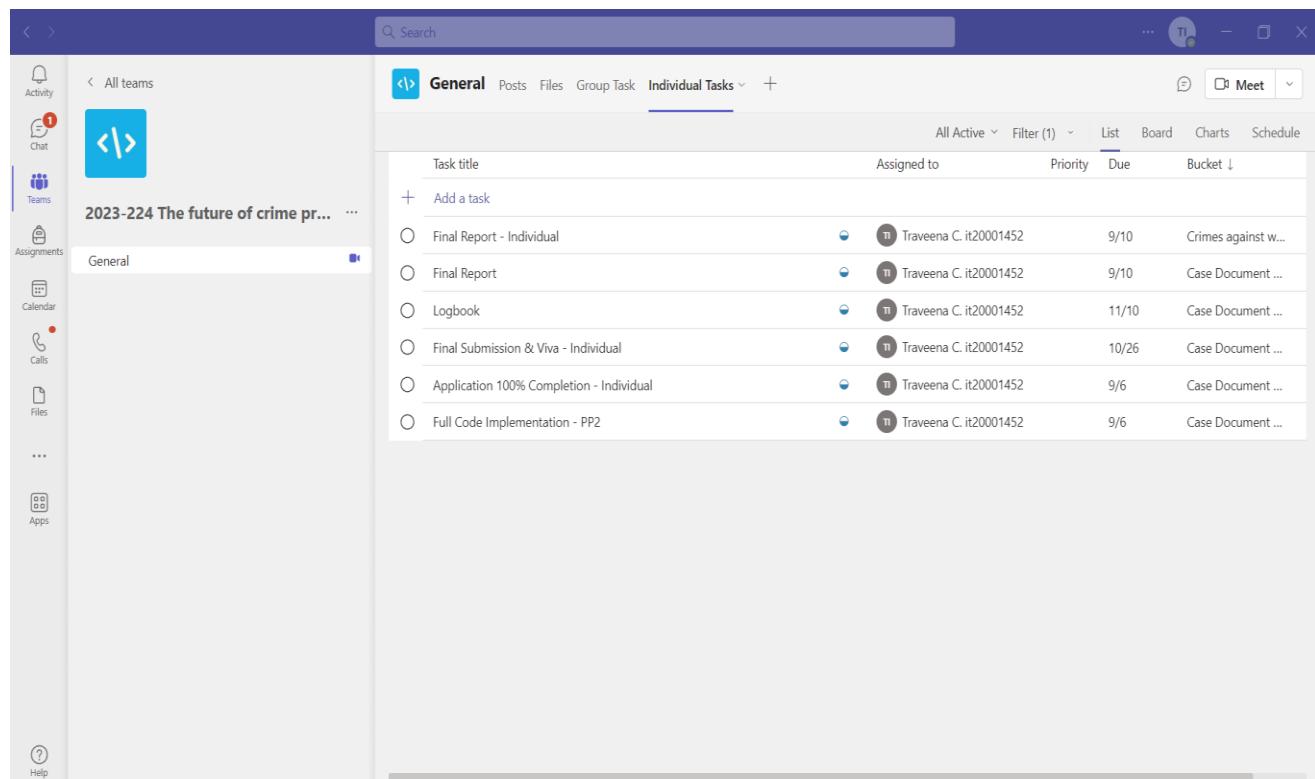
Group Tasks



The screenshot shows the Microsoft Teams interface for managing group tasks. On the left, there's a sidebar with various team-related icons like Activity, Chat, Teams, Assignments, Calendar, Calls, Files, and Apps. The main area displays a list of tasks under the 'General' tab of a team named '2023-224 The future of crime pr...'. The tasks listed are:

Task title	Assigned to	Priority	Due	Bucket
New task	AI	•		To do
logbook	TI AI KI DI		11/10	To do
Project website	TI AI KI DI		11/5	To do
PP2 90%	TI AI KI DI	!	9/6	To do
Final Report viva & Presentation	TI AI KI DI		10/30	To do
Testing	TI AI KI DI		9/6	To do

Individual Tasks



The screenshot shows the Microsoft Teams interface for managing individual tasks. The sidebar is identical to the previous screen. The main area displays a list of tasks under the 'Individual Tasks' tab of the same team. The tasks listed are:

Task title	Assigned to	Priority	Due	Bucket
Add a task				
Final Report - Individual	Traveena C. it20001452		9/10	Crimes against w...
Final Report	Traveena C. it20001452		9/10	Case Document ...
Logbook	Traveena C. it20001452		11/10	Case Document ...
Final Submission & Viva - Individual	Traveena C. it20001452		10/26	Case Document ...
Application 100% Completion - Individual	Traveena C. it20001452		9/6	Case Document ...
Full Code Implementation - PP2	Traveena C. it20001452		9/6	Case Document ...

3.4 Teams Planner Schedule

Group Tasks

The screenshot shows the Microsoft Teams Planner interface for the month of September 2023. The calendar is in 'Group Task' mode, displaying tasks across the week. In the 'General' bucket, there are four tasks: 'PP2 90%' (due Sep 6), 'Testing' (due Sep 7), 'Final Rep...' (due Sep 10), and 'logbook' (due Sep 30). The sidebar on the left shows the 'General' team and links to Activity, Chat, Teams, Assignments, Calendar, Calls, Files, and Apps.

The screenshot shows the Microsoft Teams Planner interface for the month of October 2023. The calendar is in 'Group Task' mode, displaying tasks across the week. In the 'General' bucket, there are two tasks: 'Final Rep...' (due Oct 30) and 'logbook' (due Oct 31). The sidebar on the left shows the 'General' team and links to Activity, Chat, Teams, Assignments, Calendar, Calls, Files, and Apps.

Individual Tasks

This screenshot shows the Microsoft Teams interface for the 'General' team. The main area displays a calendar for September 2023, with tasks scheduled for various dates. A sidebar on the right lists categories such as 'Case Document Classification', 'To do', 'Crimes against women', 'Crime Prediction', 'Accident Prediction', and 'Completed'. A search bar at the top allows for task filtering.

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
27	28	29	30	31	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
1	2	3	4	5	6	7

Tasks visible in the calendar:

- 6: Application...
- 6: Full Code...
- 10: Final Rep...
- 26: Project W...
- 28: Model Te...

This screenshot shows the Microsoft Teams interface for the 'General' team. The main area displays a calendar for October 2023, with tasks scheduled for various dates. A sidebar on the right lists categories such as 'Case Document Classification', 'To do', 'Crimes against women', 'Crime Prediction', 'Accident Prediction', and 'Completed'. A search bar at the top allows for task filtering.

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	1	2	3	4
5	6	7	8	9	10	11

Tasks visible in the calendar:

- 26: Final Sub...
- 6: Project W...
- 10: Logbook

3.5 Teams Planner Charts

Group Tasks

The screenshot shows the Microsoft Teams Planner interface for a team named "2023-224 The future of crime pr...". The "Group Task" tab is selected. On the left, there's a sidebar with various team management options like Activity, Chat, Teams, Assignments, Calendar, Calls, Files, Apps, and Help. The main area has three charts: a donut chart titled "Status" showing 4 tasks left, a bar chart titled "Bucket" showing a single "To do" task at index 27, and a priority chart titled "Priority". On the right, there's a "Tasks" pane with a list of items under "To do", each with a due date and assigned team members.

Status	Count
Not started	0
In progress	4
Late	0
Completed	24

Bucket	Index
To do	27

Priority	Index
	30

Task	Due Date	Assigned To
logbook	10/30	T1, AI, KI, +1
Final Report viva & Presentation	10/30	T1, AI, KI, +1
Project website	11/05	T1, AI, KI, +1
Testing	09/06	T1, AI, KI, +1

Individual Tasks

The screenshot shows the Microsoft Teams Planner interface for the same team, but with the "Individual Tasks" tab selected. The layout is identical to the "Group Task" view, featuring a sidebar, three charts (Status, Bucket, Priority), and a "Tasks" pane on the right. The "Status" chart shows 5 tasks left. The "Bucket" chart shows two tasks: one at index 0 labeled "Case Document Classification" and another at index 7 labeled "Crimes against women". The "Priority" chart shows a priority level of 25. The "Tasks" pane lists individual tasks with their due dates and assigned team members.

Status	Count
Not started	0
In progress	5
Late	0
Completed	18

Bucket	Index
Case Document Classification	0
Crimes against women	7

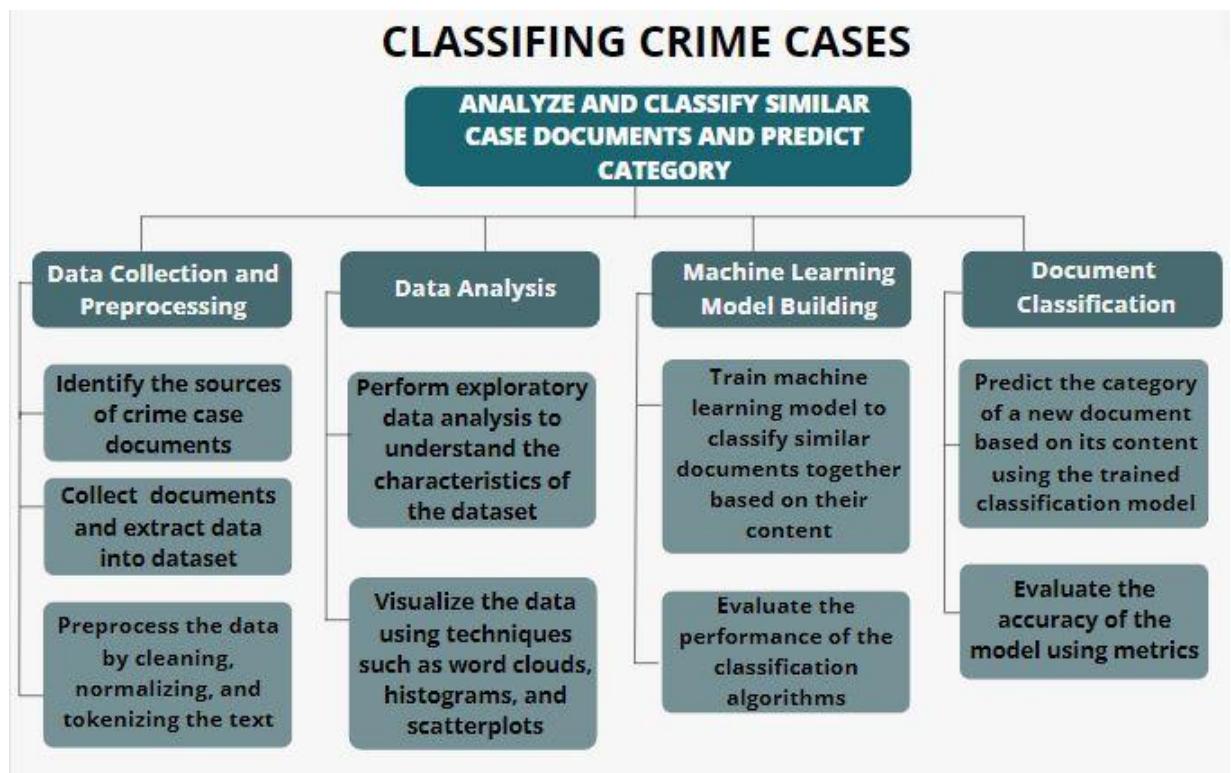
Priority	Index
	25

Task	Due Date	Assigned To
Final Report	09/10	T1
Logbook	11/10	T1
Final Submission & Viva - Individual	10/26	T1
Application 100% Completion - Individual	10/26	T1

4. Gantt Chart

Tasks	2022	2023											
	December	January	February	March	April	May	June	July	August	September	October	November	December
Topic Clarification													
Topic Assessment													
Project Charter													
Requirements Gathering													
Making of Project Proposal													
Project Presentation													
Proposal Report													
Progress Presentation-1													
Research Paper													
Final Report													
Progress Presentation-2													
Testing and Fixing issues													
Website Assessment and Research Book													
Final Report (Soft bound)													
Status Document Submission													
Final Presentation and Viva													
Final Report Submission													

5. Work Breakdown Structure



6. WhatsApp Research Project Group

POLICE - Research - 2023
Anuuuuuuu, Dharshan, Krishhhh, +94 77 222 4848, +94 77 691 8328...
Dharshan Okay madam 09:00 SATURDAY
~ Hansika Mahaadikara +94 77 222 4848 10.20 hav a lecture till 10 09:19
Dharshan ~ Hansika Mahaadikara +94 77 222 4848 10.20 hav a lecture till 10
Okay madam.. We'll join 09:21
Dharshan Join conversation teams.microsoft.com
You're invited to a Teams meeting!
PP1 - Discussion
https://teams.microsoft.com/l/meetup-join/19%3ameeting_MzVhN2IzMTEtYU1ZS00MTBkLTlhNTUtMDQ3Njg2Y2E4yMfh%40thead.v2/0?context=%7b%22Tid%22%3a%2244e3cf94-19c9-4e32-96c3-14f5bf01391a%22%2c%220id%22%3a%22bc1054dd-f400-102f-a210-
Type a message

Group info

RESEARCH PROJECT (POLICE)

POLICE - Research - 2023 Group · 6 participants

TMP-23-224 Group created by Dharshan, on 22/12/2022 at 10:42

Media, links and docs 8 >

Activate Windows Go to Settings to activate Windows.

POLICE - Research - 2023
Anubama, Hansika, Krish, Sanjeevi, Travee, You
we wanted to kindly request a small discussion regarding our upcoming Progress Presentation 1, scheduled for the 26th from 3pm to 4pm. I would greatly appreciate your guidance and input to ensure a successful presentation.
If it's convenient for you, could we please schedule a brief Teams call to discuss the presentation? We are open to your availability, so please let us know a date and time that works best for you madam.
10:49 am ✓
YESTERDAY

Hansika Mahaadikaara Madam Slit 10am today 5:15 am
Okay madam 9:00 am ✓
Hansika Mahaadikaara Madam Slit 10.20 hav a lecture till 10 9:19 am
Hansika Mahaadikaara Madam Slit

Group info

Add participant
 Invite to group via link

You You Group Admin Noise creates illusions, Silence brings truth!...
Anubama 🍸 Group Admin Heart made of glass ' mind of stone 😊
Hansika Mahaadikaara Ma... Hansika Mahaadikara Group Admin
Krish Krish Group Admin
Sanjeevi Chandrasiri Mada... Sanjeevi Chandrasiri Mada... Group Admin Urgent calls only
Travee 🎃 Pumpkin පුරුණ ... Travee 🎃 Pumpkin පුරුණ ... Group Admin

Exit group

POLICE - Research - 2023
Anubama, Hansika, Krish, Sanjeevi, Travee, You

You're invited 20/05/2023 to a meeting!
PP1 - Discussion
https://teams.microsoft.com/l/meetup-join/19%3ameeting_MzVhN2IzMTEtY2U1ZS00MTBkLTlhNTUtMDQ3Njg2Y2E4YmFh%40thread.v2/0?context=%7b%22Tid%22%3a%2244e3cf94-19c9-4e32-96c3-14f5bf01391a%22%2c%22Oid%22%3a%22bc4954dd-f4e0-493f-a210-75906c308207%22%7d

Tap on the link or paste it in a browser to join. 9:25 am ✓
23/05/2023

Dear @Hansika Mahaadikaara Madam Sliit Madam,
I have a quick question regarding our research project. Is it possible to use multiple algorithms for a specific component, or are we restricted to using only one algorithm? Could you please let me know?
Thank you! 11:57 am ✓

Hansika Mahaadikaara Madam Sliit no any restriction 12:26 pm

Okay madam. Thank you!!!

Type a message

POLICE - Research - 2023
Anubama, Hansika, Krish, Sanjeevi, Travee, You

20/06/2023

The Future of Crime Prevention: Police Case Analysis using Machine Learning

Download PDF 2 pages • PDF • 693 kB

Dear @Hansika Mahaadikaara Madam Sliit Madam and @Sanjeevi Chandrasiri Madam -SL - co Supervisor Madam,
Herewith I have attached the draft Research Paper for your review. Your valuable feedback and suggestions on any necessary changes or modifications would be highly appreciated. If no changes are required, we can proceed with submitting the paper for publication.
I have sent an email to both of you with the subject "Request for Review and Feedback on Research Paper - Group ID: 2023-224" containing the PDF file.
To discuss any feedback or review issues, let's

Type a message

 POLICE - Research - 2023
Anubama, Hansika, Krish, Sanjeevi, Travee, You

feedback, and any changes that need to be made.
The meeting c...Read more 6:59 pm ✓

20/06/2023

Hansika Mahaadikaara Madam Sliit
Write the acknowledgement also in passive voice
Reference 1,2,4 ???
Reference numbers should start by 1 8:18 pm
Reduce the number of pages to 6 8:18 pm

Okay madam. We will update the paper. 8:20 pm ✓

Hansika Mahaadikaara Madam Sliit
My name
Mahaadikaara M.D.J.T. Hansika
Faculty of Computing,
Sri Lanka Institute of Information Technology , Malabe , Sri Lanka

Do not use titles 8:28 pm

Sanjeevi Shahikala Chandrasiri,
Faculty of Computing ,
Sri Lanka Institute of Information Technology , Malabe , Sri Lanka 8:30 pm

Okay madam!!!

+ Type a message

POLICE - Research - 2023
Anubama, Hansika, Krish, Sanjeevi, Travee, You

20/06/2023

Sanjeevi Chandrasiri Madam -SL - co Supervisor
Hansika Mahaadikaara Madam Sliit
Sanjeevi Shahikala Chandrasiri,
Faculty of Computing ,
Sri Lanka Institute of Information Technology , Malabe , Sri Lanka

Sanjeevi not w please 9:30 pm

Sanjeevi Chandrasiri Madam -SL - co Supervisor
Sanjeevi not w please
Okay madam 9:39 pm ✓

21/06/2023

Hansika Mahaadikaara Madam Sliit
We r going to nominate your research project for NBSQA 8:44 am

Sanjeevi Chandrasiri Madam -SL - co Supervisor
Yes please prepare for a progress soon 8:50 am

Krish
⌚ This message was deleted 8:55 am

+ Type a message

7. Gitlab Details and Commits

The screenshots illustrate the GitLab interface for a project named "2023-224".

Screenshot 1: Project Overview - Members

- Left Sidebar:** Shows project navigation with tabs: Project overview, Details, Activity, Releases, Repository, Issues (0), Merge Requests (0), CI / CD, Operations, Analytics, Wiki, Snippets, Settings (selected), General, Members (selected), Integrations.
- Top Bar:** Shows the project name "2023-224" and various navigation links like Projects, Groups, More, and a search bar.
- Content Area:**
 - Existing members and groups:** A table listing members with their roles and expiration dates. Members include Anubama Logaratnam, Dharsan.R, Hansika Mahadikara, Krishanthini.M, Sanjevi Sashikala Chandrasiri, and traveena chandrasegar.
 - Project Overview:** Shows a summary of recent activity: modified template (15 minutes ago) and Update README.md (3 months ago).

Screenshot 2: Project Overview - Details

- Left Sidebar:** Same as Screenshot 1.
- Top Bar:** Same as Screenshot 1.
- Content Area:**
 - README.md:** Contains the project's main research question and objectives.

Screenshot 3: Project Overview - Details

- Left Sidebar:** Same as Screenshot 1.
- Top Bar:** Same as Screenshot 1.
- Content Area:**
 - Individual Research Question:** Lists several research questions related to crime prevention and machine learning.
 - Individual Objectives:** Lists specific goals for the project, such as developing a machine learning system for accident prediction and improving criminal investigation methods.

GitLab Projects Groups More

2 2023-224

Project overview Repository Commits Branches Tags Contributors Graph Compare Issues Merge Requests CI / CD Operations

2023-224 > 2023-224 > Commits

master 04 Sep, 2023 26 commits

Commit Message	Author	Date
Text Document Classification	Traveena	authored just now
Text Document Classification	Traveena	authored just now
Text Document Classification	Traveena	authored just now
Text Document Classification	Traveena	authored just now
Text Document Classification	Traveena	authored 1 minute ago
Text Document Classification	Traveena	authored 1 minute ago
Text Document Classification	Traveena	authored 1 minute ago

Filter by commit message

GitLab Projects Groups More

2 2023-224

Project overview Repository Commits Branches Tags Contributors Graph Compare Issues Merge Requests CI / CD Operations

Traveena authored 1 minute ago

Commit Message	Author	Date
Text Document Classification	Traveena	authored 2 minutes ago
Text Document Classification	Traveena	authored 2 minutes ago
Text Document Classification	Traveena	authored 3 minutes ago
Text Document Classification	Traveena	authored 3 minutes ago
Text Document Classification	Traveena	authored 3 minutes ago
Text Document Classification	Traveena	authored 3 minutes ago
Text Document Classification	Traveena	authored 4 minutes ago
Updates	Traveena	authored 6 minutes ago

GitLab Projects Groups More

2 2023-224

Project overview Repository Commits Branches Tags Contributors Graph Compare Issues

Text Document Classification Traveena authored 3 minutes ago

Commit Message	Author	Date
Text Document Classification	Traveena	authored 3 minutes ago
Text Document Classification	Traveena	authored 4 minutes ago
Updates	Traveena	authored 6 minutes ago
Update	Traveena	authored 6 minutes ago
Updated	Traveena	authored 7 minutes ago
initial commit	Traveena	authored 9 minutes ago

THE FUTURE OF CRIME PREVENTION: POLICECASE ANALYSIS USING MACHINE LEARNING

(Clustering crimes against women and crime forecasting prediction)

Project Id

2023-224

Status Document - 2

Anubama Logaratnam - IT20068196

Supervisor – Ms. Hansika Mahaadikara

Co-Supervisor - Ms. Sanjeevi Chandrasiri

BSc (Hons) in Information Technology Specializing in
SoftwareEngineering

Department of Computer Science & Software Engineering

Sri Lankan Institute of Information Technology

Sri Lanka

September 2023

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1. Microsoft Teams Details

1.1 Team Members

The screenshot shows the Microsoft Teams interface for a team named "2023-224 The future of crime prevention: police case analysis using machine learn...". The left sidebar includes icons for Activity, Chat, Teams, Calendar, Assignments, Calls, Files, and Apps. The main area displays the team's members:

Name	Title	Location	Tags	Role
Dharsan.R it20003982				Owner
Traveena C. it20001452				Member
Krishanthini M. it19980928				Member
Anubama L. it20068196				Member

1.2 Team Meetings with Supervisor

The screenshot shows the Microsoft Teams interface for a meeting titled "PP1 - Discussion" on Saturday, May 20, 2023, at 10:02:42 AM. The meeting duration was 32m 33s and the average attendance time was 16m 44s. The participants were:

Name	First join	Last leave	In-meeting duration	Role
Dharsan.R it20003982@my.sliit.lk	10:11 AM	10:35 AM	23m 29s	Organizer
Anubama Logarithnam anubama.logarithnam@iteasoft.com	10:17 AM	10:35 AM	17m 26s	Presenter
Krishanthini M. it19980928@my.sliit.lk	10:19 AM	10:35 AM	15m 37s	Presenter
Hansika Mahaadikara hansika.m@sliit.lk	10:24 AM	10:35 AM	10m 24s	Presenter
Traveena C. it20001452@my.sliit.lk	10:24 AM	10:35 AM	10m 24s	Presenter

meetingAttendanceReport - Excel

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	Meeting Summary				4											
2	Total Number of Participants				Status Document 2 Discussion											
3	Meeting Title				7/21/2023, 9:09 AM											
4	Meeting Start Time				7/21/2023, 9:52 AM											
5	Meeting End Time				7/21/2023, 9:53 AM											
6	Meeting Id				at1e2f90-134c-41b8-8410-7050b8ae7885											
7																
8	Full Name	Join Time	Leave Time	Duration	Email	Role	Participant (0 UPN)									
9	Dharsan.R it20003982	7/21/2023, 10:09:36 PM	5m 51s	5m 51s	it20003982@my.sliit.lk	Organizer	it20003982@my.sliit.lk									
10	Traveena.C. it20001452	7/21/2023, 10:09:34 PM	5m 36s	5m 36s	it20001452@my.sliit.lk	Presenter	it20001452@my.sliit.lk									
11	Anubama.L. it20068196	7/21/2023, 10:09:32 PM	5m 56s	5m 56s	it20068196@my.sliit.lk	Presenter	it20068196@my.sliit.lk									
12	Krishanthini.M. it19980928	7/21/2023, 10:09:36 PM	49s	49s	it19980928@my.sliit.lk	Presenter	it19980928@my.sliit.lk									
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																
25																
26																
27																
28																
29																

PP2 - Discussion Chat Files Attendance Meeting Notes 4 more +

Saturday, June 17, 2023 10:02:42 AM

Summary

4 Attended 10:02 AM - 10:35 AM Start and end time 32m 33s Meeting duration 16m 44s Average attendance time

Name	First join	Last leave	In-meeting duration	Role
Dharsan.R. it20003982 it20003982@my.sliit.lk	10:11 AM	10:35 AM	23m 29s	Organizer
Anubama.Logarithinam anubama.logarithinam@telasoft.com	10:17 AM	10:35 AM	17m 26s	Presenter
KI Krishanthini.M. it19980928 it19980928@my.sliit.lk	10:19 AM	10:35 AM	15m 37s	Presenter
Hansika.Mahaadikara hansika.m@sliit.lk	10:24 AM	10:35 AM	10m 24s	Presenter

Research Paper- Discussion with supervisor Chat Files Attendance Meeting Notes 4 more +

6/2 8:38 AM Meeting ended: 15s

Attendance

6/2 8:40 AM Meeting started

Krishanthini.M. it19980928 was invited to the meeting.

Anubama.Logarithinam was invited to the meeting.

6/2 9:01 AM Recording has started

6/2 9:04 AM Recording has stopped. Saving recording...

Recording Dharsan.R. it20003982 3m 25s

This recording is set to expire. View or change the expiration date [here](#). [Learn more](#)

Hansika.Mahaadikara was invited to the meeting.

Add people

Additionally, we had a couple of phone calls with the supervisor individually and met her physically on the 7th floor of FOC Main Building, SLIIT.

2. Teams calls with Research Team

Microsoft Teams

2023-224 The future of crime pr...

General

Members Channels Analytics Apps Tags

Search for members Add member

Name	Title	Location	Tags	Role
Dharsan.R it20003982				Owner
Traveena C. it20001452				Member
Krishanthini M. it19980928				Member
Anubama L. it20068196				Member

File Edit Selection View Go Run Terminal Help

PROJECT_NAME

prediction.html

```

<head>
  <title>predict</title>
  <link rel="stylesheet" type="text/css" href="{% static 'css/styles.css' %}">
</head>
<body>
  <div class="container">
    <div>Enter Input Data</div>
    <form method="post" action="{% url 'prediction:predict' %}>
      <x>
        <div class="form-group">
          <label for="gender">Gender</label>
          <input type="radio" name="gender" value="M"/> Male
          <input type="radio" name="gender" value="F"/> Female
        </div>
        <div class="form-group">
          <label for="age">Age</label>
          <input type="text" name="age" value="25" />
        </div>
        <div>Submit</div>
      </x>
    </form>
  </div>
</body>

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

Exception ignored in: <function Variable._del__ at 0x000000E2378940>

Traceback (most recent call last):
 File "C:\Users\Hars\AppData\Local\Programs\Python\Python311\lib\tkinter_init_.py", line 410, in __del__
 if self._tk.getboolean(self._tk.call("info", "exists", self._name)):

BurnInError: main thread is not in main loop

Tcl_AppDelete() async handler deleted by the wrong thread

System check identified no issues (0 silenced).

May 17, 2023 - 21:32:22

Django version 4.2.1, using settings 'PROJECT_NAME.settings'

Starting development server at http://127.0.0.1:8000

Quit the server with Ctrl+C.

Performing system checks...

[17/May/2023 21:32:22] "GET /predict/ HTTP/1.1" 200 2605

Traveena Chand...

AL

Anubama Logar...

KI

Krishanthini M. i...

DI

The screenshot shows a Microsoft Teams channel named '2023-224 The future of crime pr...'. The channel summary indicates 4 users, 9 apps, 0 meetings, 2 posts, 1 reply, 0 mentions, and 0 reactions. It also shows 4 active users and 4 owners + members.

The screenshot shows a Figma prototype titled 'Desktop - 1' for 'CrimeShield'. The prototype includes a 'Meeting chat' window showing a recording started at 12:53 PM and a 'Recording has started' message. The prototype interface includes a navigation bar with Home, Accidents, Crimes, Crime Classifier, and Women - Crime, and a sidebar with various pages like Women - Crime, Crime Classifier, and Accidents.

The screenshot shows a SharePoint Stream recording titled 'PP1-Discussion-20230517_204621-Meeting Re...'. The video player displays a Jupyter notebook titled 'jupyter_Decision_Tree_Assignment_ML.ipynb' showing code for decision tree analysis and a data preview. The video player interface includes a timeline, video settings, comments, analytics, and help buttons.

PP1-Discussion

May 17, 2023 Expires in 55 days • 2 views • Dharsan.R.it20003982 • ... > General > Recordings

Add a description to explain what this video is about.

1 PP2 -Discussion -20230617_204671-Meeting Re... ↗ ✓

+ Add to playlist ⏪ Move to ⏪ Copy to ...

```

In [12]: #check total categorical values in ever_married field
data_stroke_df['ever_married'].value_counts()
Out[12]: 
Yes    3153
No     1757
Name: ever_married, dtype: int64

In [13]: #check total categorical values in work_type field
data_stroke_df['work_type'].value_counts()
Out[13]: 
Private      2925
Self-employed    839
children       687
Govt         637
Never worked     22
Name: work_type, dtype: int64

In [14]: #check total categorical values in residence_type field
data_stroke_df['residence_type'].value_counts()
Out[14]: 
Urban        2596
Rural        2541
Name: residence_type, dtype: int64

In [15]: #check total categorical values in smoking_status field
data_stroke_df['smoking_status'].value_counts()
Out[15]: 
never smoked   1892
Unknown          1544
formerly smoked  585
smokes           789
Name: smoking_status, dtype: int64

```

1:23:09 / 1:34:56

IP Address Description

Add My Current IP Address

IP Access List Description

123.231.222.224/32

EDIT REMOVE

Finish and Close

POLICE - Research - 2023

Anubama, Hansika, Krish, Sanjeevi, Travee, You

24/06/2023

Okay madam... We will update the paper. 11:00 am ✓

The Future of Crime Prevention: Police Case Analysis using Machine Learning

Updated_2023-224-Research Paper2023.pdf

6 pages • PDF • 597 KB

Dear @Hansika Mahaadikaara Madam Sliit Madam, and @Sanjeevi Chandrasiri Madam -SL - co Supervisor Madam,

Kindly review the updated research paper and provide us with the feedback.

Thank you!

WEDNESDAY

Krish
Dear @Hansika Mahaadikaara Madam Sliit madam when will our ppt 2 held? 9:45 am

Type a message

3. MS Teams Planner

This screenshot shows the Microsoft Teams interface for the 'General' channel of a team named '2023-224 The future of crime pr...'. The left sidebar includes links for Activity, Chat, Teams, Calendar, Assignments, Calls, Files, and Apps. The main area displays a post from 'Dharsan.R it20003982' containing a video recording. Below it are two 'Group Task' cards and one 'Individual Tasks' card, all from the same user. A 'New conversation' button is at the bottom. The right sidebar shows team members, recent contributions, and a 'See all' section for apps.

3.1 Planner Board Group Tasks

This screenshot shows the Microsoft Teams Planner Board view for the same team. The 'Group Task' tab is selected. The 'To do' section contains four tasks: 'Project website' (due 10/30), 'Testing' (due 11/05), and '08/20' (due 08/20). The 'Completed tasks' section shows a single task: 'NBQSA-presentation'. The right sidebar offers navigation options like Group by Bucket, Filter, List, Board, Charts, and Schedule, along with an 'Activate Windows' message.

Individual Tasks

The screenshot shows the Microsoft Teams interface with the 'General' channel selected. The main area displays three columns of tasks under the 'Individual Tasks' tab:

- To do:** Contains tasks like 'Project Website - Individual' (due 11/06), 'Full Code Implementation - PP2' (due 09/06), 'Report' (due 09/10), and 'Final Report - Individual'.
- Crimes against women:** Contains tasks like 'Logbook' (due 11/10) and 'Final Submission & Viva (Individual)' (due 10/26).
- Crime Prediction:** Contains tasks like 'Project website creation' (due 11/06), 'Final Presentation' (due 11/03), 'Research Logbook creation' (due 10/23), and 'Final Report' (due 09/10). A note at the bottom right says 'Activate Windows'.

On the left sidebar, the 'Assignments' tab is highlighted. The top navigation bar includes 'Search', 'Meet', and an AI icon.

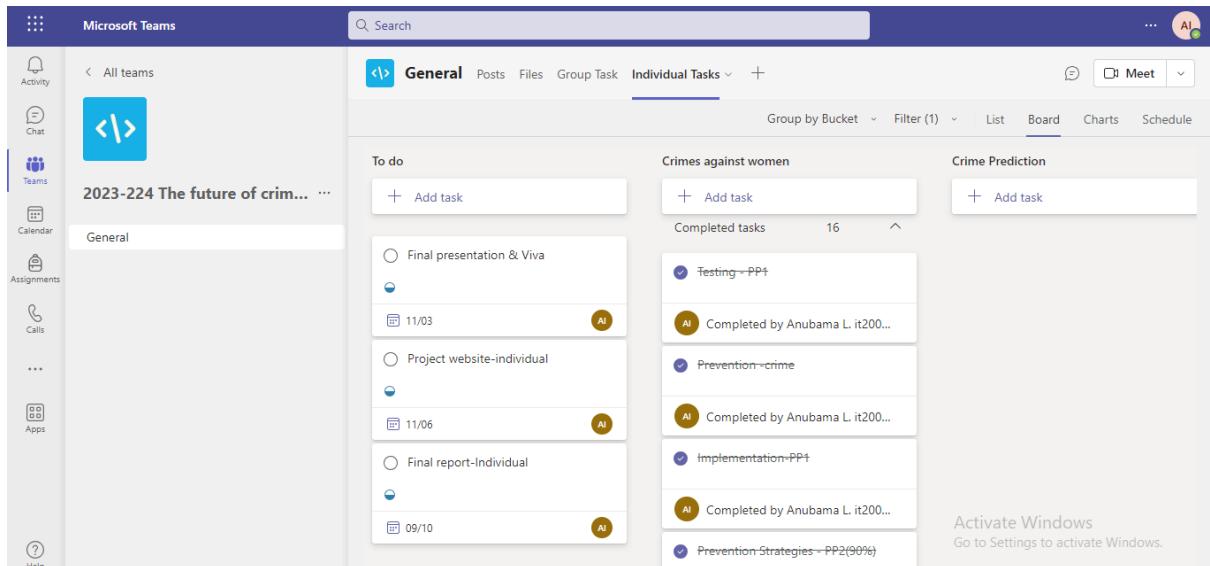
3.2 Completed Tasks Group Tasks

The screenshot shows the Microsoft Teams interface with the 'General' channel selected. The main area displays a column of completed tasks under the 'Group Task' tab:

- 'NBQSA presentation' (status: completed)
- 'Completed by Dharsan.R it20003...' (status: completed)
- 'Design' (status: completed)
- 'Completed by Anubama L. it200...' (status: completed)
- 'Topic evaluation' (status: completed)
- 'Completed by Anubama L. it200...' (status: completed)
- 'Topic assessment form' (status: completed)
- 'Completed by Anubama L. it200...' (status: completed)

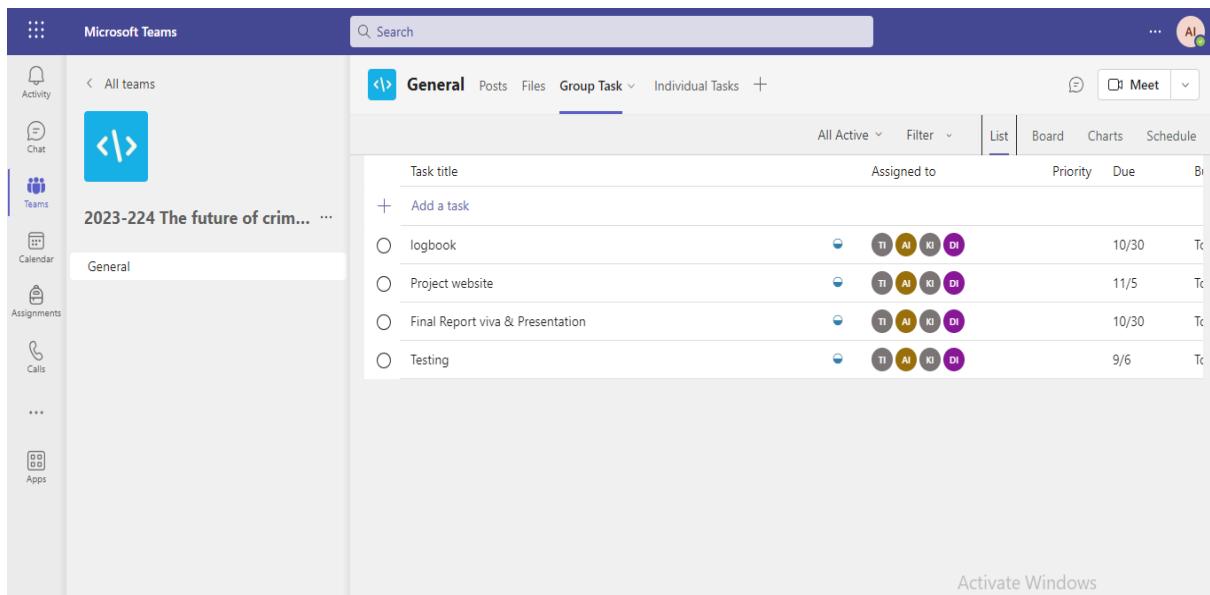
On the left sidebar, the 'Assignments' tab is highlighted. The top navigation bar includes 'Search', 'Meet', and an AI icon. A note at the bottom right says 'Activate Windows'.

Individual Tasks



The screenshot shows the Microsoft Teams interface with the 'General' channel selected. The top navigation bar includes 'General', 'Posts', 'Files', 'Group Task', 'Individual Tasks', and a '+' button. Below the navigation are tabs for 'List', 'Board', 'Charts', and 'Schedule'. A search bar is at the top right. On the left, a sidebar lists 'Activity', 'Chat', 'Teams', 'Calendar', 'Assignments', 'Calls', '...', 'Apps', and 'Help'. The main content area displays a 'To do' list with tasks like 'Final presentation & Viva', 'Project website-individual', 'Final report-Individual', and 'Testing'. To the right, there are sections for 'Crimes against women' and 'Crime Prediction', each with their own 'Add task' buttons and lists of completed tasks. An AI icon is visible in the top right corner.

3.3 Pending Tasks Group Tasks



The screenshot shows the Microsoft Teams interface with the 'General' channel selected. The top navigation bar includes 'General', 'Posts', 'Files', 'Group Task', 'Individual Tasks', and a '+' button. Below the navigation are tabs for 'All Active', 'Filter', 'List', 'Board', 'Charts', and 'Schedule'. A search bar is at the top right. On the left, a sidebar lists 'Activity', 'Chat', 'Teams', 'Calendar', 'Assignments', 'Calls', '...', 'Apps', and 'Help'. The main content area displays a 'Task title' column and an 'Assigned to' column with icons for team members. Tasks listed include 'logbook', 'Project website', 'Final Report viva & Presentation', and 'Testing'. An AI icon is visible in the top right corner.

Individual Tasks

The screenshot shows the Microsoft Teams Planner interface for a team named "2023-224 The future of crime". The left sidebar includes links for Activity, Chat, Teams, Calendar, Assignments, Calls, and Apps. The main area is titled "General" and displays a list of individual tasks:

Task title	Assigned to	Due Date	Category
Final presentation & Viva	Anubama L.it20068196	11/3	Tc
Project website-individual	Anubama L.it20068196	11/6	Tc
Final report-Individual	Anubama L.it20068196	9/10	Tc
Final Submission & Viva (Individual)	Anubama L.it20068196	10/26	C

At the bottom right, there is a message: "Activate Windows Go to Settings to activate Windows."

3.4 Teams Planner Schedule

Group Tasks

The screenshot shows the Microsoft Teams Planner interface for the same team "2023-224 The future of crime". The left sidebar is identical to the previous screenshot. The main area is titled "General" and displays a calendar view for July 2023. A task titled "NBQSA p..." is highlighted on July 18th.

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
25	26	27	28	29	30	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31	1	2	3	4	5

On the right side, there are sections for "Unscheduled tasks" (with a "+ Add task" button) and "To do" and "Completed" lists. At the bottom right, there is a message: "Activate Windows Go to Settings to activate Windows."

Microsoft Teams

Search

All teams

General

2023-224 The future of crime... General

Activity Chat Teams Calendar Assignments Calls Apps Help

General Posts Files Group Task Individual Tasks +

Group by Bucket Filter List Board Charts Schedule

August 2023

Sunday Monday Tuesday Wednesday Thursday Friday Saturday

30	31	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
Testing						
27	28	29	30	31	1	2
3	4	5	6	7	8	9

PP2 90%

Research...

Activate Windows Go to Settings to activate Windows.

This screenshot shows the Microsoft Teams calendar interface for August 2023. The calendar view is set to 'Month' mode. Key events listed include 'Research...' on August 15th, 'Testing' on August 20th, and 'PP2 90%' on August 27th. A reminder for 'Activate Windows' is visible at the bottom right. The sidebar on the left contains links for Activity, Chat, Teams, Calendar, Assignments, Calls, Apps, and Help.

Microsoft Teams

Search

All teams

General

2023-224 The future of crime... General

Activity Chat Teams Calendar Assignments Calls Apps Help

General Posts Files Group Task Individual Tasks +

Group by Bucket Filter List Board Charts Schedule

September 2023

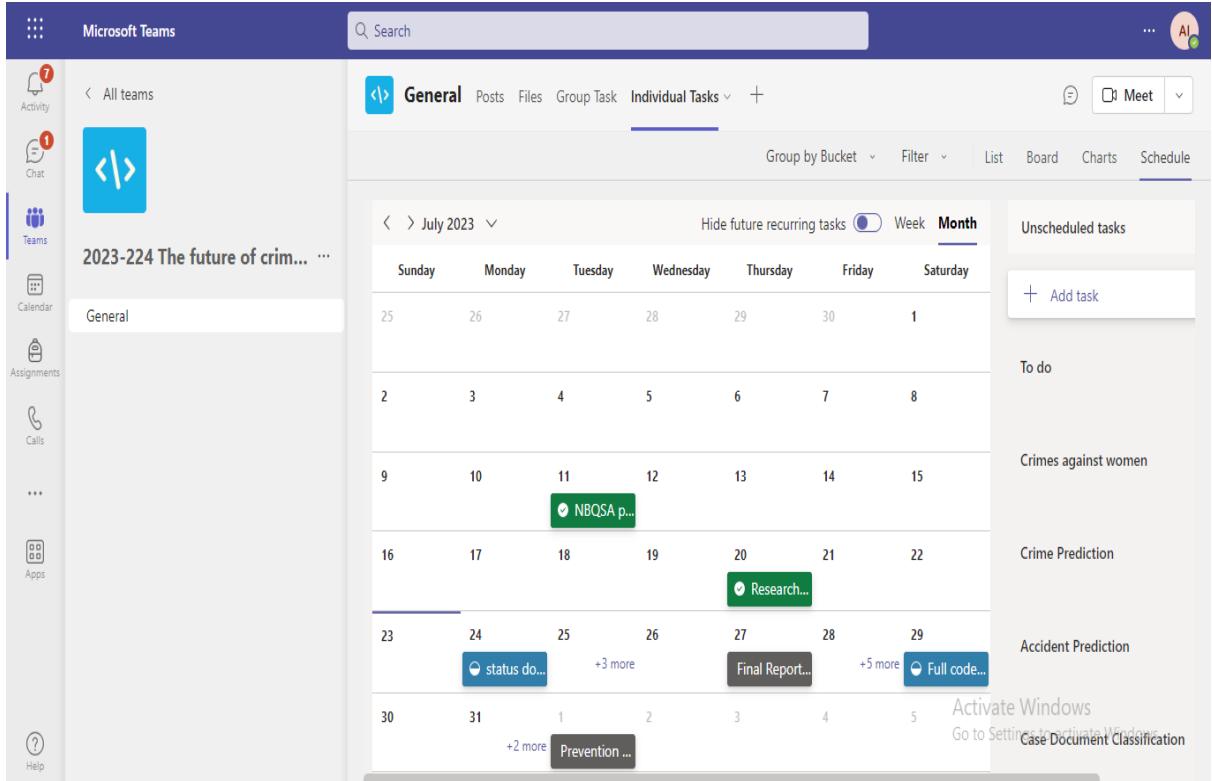
Sunday Monday Tuesday Wednesday Thursday Friday Saturday

27	28	29	30	31	1	2
3	4	5	6	7	8	9
PP2 90%						
Final Rep...						
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
1	2	3	4	5	6	7

Activate Windows Go to Settings to activate Windows.

This screenshot shows the Microsoft Teams calendar interface for September 2023. The calendar view is set to 'Month' mode. Key events listed include 'PP2 90%' on September 4th and 'Final Rep...' on September 10th. A reminder for 'Activate Windows' is visible at the bottom right. The sidebar on the left contains links for Activity, Chat, Teams, Calendar, Assignments, Calls, Apps, and Help.

Individual Tasks



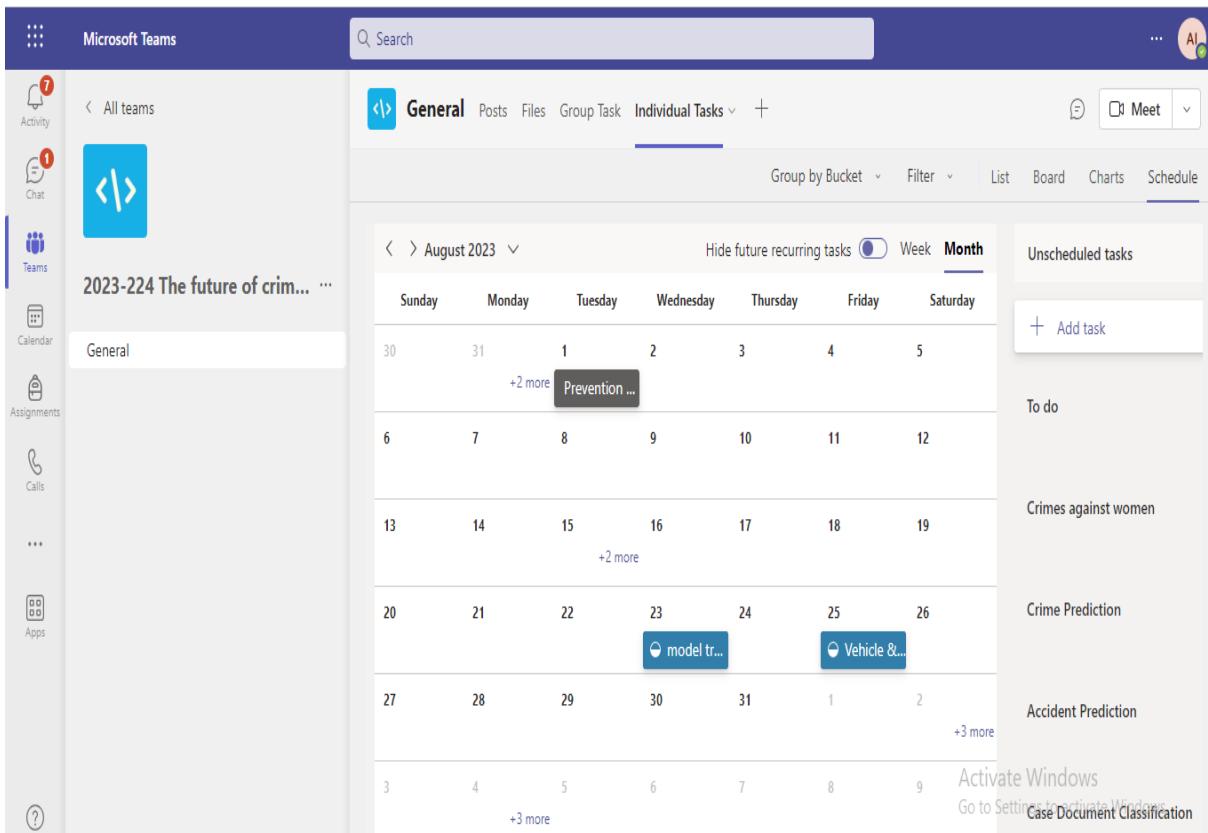
The screenshot shows the Microsoft Teams interface for managing individual tasks. The left sidebar includes Activity, Chat, Teams, Calendar, Assignments, Calls, and Apps. The main area displays a calendar for July 2023. The 'General' tab is selected under 'Individual Tasks'. The calendar shows various tasks scheduled throughout the month. A sidebar on the right lists 'Unscheduled tasks' such as 'Crimes against women', 'Crime Prediction', and 'Accident Prediction'. A 'To do' section is also visible.

July 2023

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
25	26	27	28	29	30	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31	1	2	3	4	5

Tasks listed in the sidebar:

- Unscheduled tasks:
 - Crimes against women
 - Crime Prediction
 - Accident Prediction
- To do



The screenshot shows the Microsoft Teams interface for managing individual tasks. The left sidebar includes Activity, Chat, Teams, Calendar, Assignments, Calls, and Apps. The main area displays a calendar for August 2023. The 'General' tab is selected under 'Individual Tasks'. The calendar shows various tasks scheduled throughout the month. A sidebar on the right lists 'Unscheduled tasks' such as 'Crimes against women', 'Crime Prediction', and 'Accident Prediction'. A 'To do' section is also visible.

August 2023

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
30	31	1	2	3	4	5
	+2 more	Prevention ...				
6	7	8	9	10	11	12
13	14	15	16	17	18	19
		+2 more				
20	21	22	23	24	25	26
			model tr...		Vehicle &...	
27	28	29	30	31	1	2
					+3 more	
3	4	5	6	7	8	9
	+3 more					

Tasks listed in the sidebar:

- Unscheduled tasks:
 - Crimes against women
 - Crime Prediction
 - Accident Prediction
- To do

3.5 Teams Planner Charts

Group Tasks

The screenshot shows the Microsoft Teams interface with the Planner extension open. The left sidebar shows various team channels like Activity, Chat, Teams, Calendar, Assignments, Calls, and Apps. The main area displays a donut chart titled 'Status' with the following data:

Status	Count
Not started	0
In progress	5
Late	0
Completed	21

Below the chart, there's a 'Tasks' section with a button to '+ Add task'. To the right, a 'To do' list includes items like 'logbook', 'PP2 90%', and a task due on 10/30 assigned to four users (T1, AI, KI, +1). There are also buttons for 'List', 'Board', 'Charts', and 'Schedule'.

The screenshot shows the Microsoft Teams interface with the Planner extension open. The left sidebar shows various team channels like Activity, Chat, Teams, Calendar, Assignments, Calls, and Apps. The main area displays a Gantt chart for a task named 'Anubama L. It20068196' with a duration of 1 day. Below it is another task for 'Dharsan R. It20003982' and two more tasks for 'Krishanthini M. It19980928' and 'Traveena C. It20001452', each also with a duration of 1 day. To the right, there's a 'Tasks' section with a button to '+ Add task', a 'To do' list with items like 'logbook', 'PP2 90%', and a task due on 10/30 assigned to four users (T1, AI, KI, +1), and buttons for 'List', 'Board', 'Charts', and 'Schedule'.

Individual Tasks

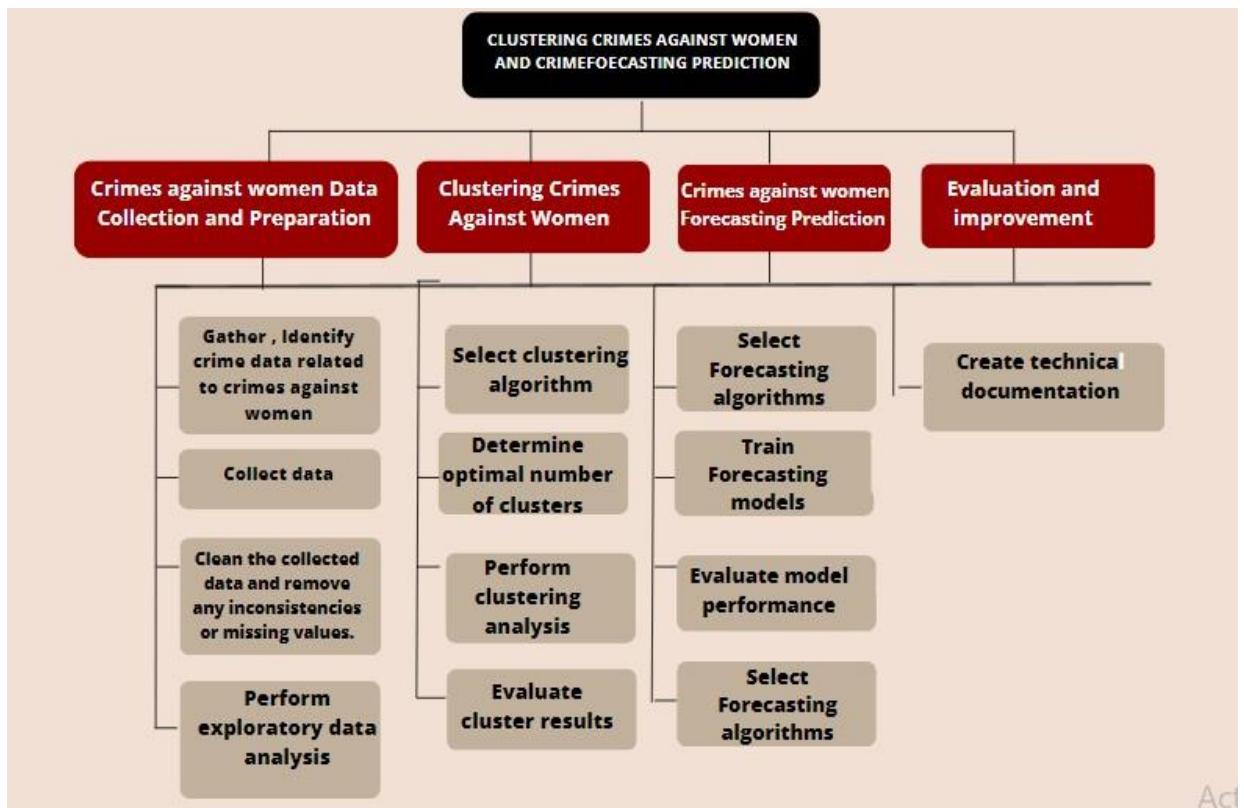
The screenshot shows the Microsoft Teams Individual Tasks dashboard. The top navigation bar includes 'General', 'Posts', 'Files', 'Group Task', 'Individual Tasks' (selected), and '+'. Below the navigation are buttons for 'Group by Bucket', 'Filter (1)', 'List', 'Board', 'Charts' (selected), and 'Schedule'. On the left sidebar, there are links for 'Activity', 'Chat', 'Teams', 'Calendar', 'Assignments', 'Calls', '...', and 'Apps'. The main content area has a 'Status' section with a donut chart showing '4 Tasks left'. Below it is a 'Bucket' section with a bar chart. The 'Tasks' pane on the right lists four tasks: 'Final presentation & Viva' (due 11/03), 'Project website-individual' (due 11/06), 'Activate Windows', and 'Final report-Individual activate Windows'. Each task has an AI icon.

This screenshot shows the Microsoft Teams Individual Tasks dashboard with a different view. The top navigation bar includes 'General', 'Posts', 'Files', 'Group Task', 'Individual Tasks' (selected), and '+'. Below the navigation are buttons for 'Group by Bucket', 'Filter (1)', 'List', 'Board', 'Charts' (selected), and 'Schedule'. The left sidebar includes 'Activity', 'Chat', 'Teams', 'Calendar', 'Assignments', 'Calls', '...', 'Apps', and 'Help'. The main content area features a 'Bucket' section with a bar chart. The 'Tasks' pane on the right lists the same four tasks as the previous screenshot: 'Final presentation & Viva' (due 11/03), 'Project website-individual' (due 11/06), 'Activate Windows', and 'Final report-Individual activate Windows'. Each task has an AI icon.

4. Gantt Chart

Tasks	2022	2023											
	December	January	February	March	April	May	June	July	August	September	October	November	December
Topic Clarification													
Topic Assessment													
Project Charter													
Requirements Gathering													
Making of Project Proposal													
Project Presentation													
Proposal Report													
Progress Presentation-1													
Research Paper													
Final Report													
Progress Presentation-2													
Testing and Fixing issues													
Website Assessment and Research Book													
Final Report (Soft bound)													
Status Document Submission													
Final Presentation and Viva													
Final Report Submission													

5. Work Breakdown Structure



6. Gitlab Commits

6.1 Project Detail

The screenshot shows the GitLab project overview for '2023-224'. The sidebar includes links for Project overview, Details, Activity, Releases, Repository, Issues (0), Merge Requests (0), CI / CD, Operations, Analytics, Wiki, and Sprintnote. The main area displays a commit history for the 'master' branch. The latest commit is by 'anubama849' titled 'Women -crime Form designs' with a timestamp of 14 minutes ago. The commit hash is 470c66cb. Below the commit list are buttons for README, Auto DevOps enabled, Add LICENSE, Add CHANGELOG, Add CONTRIBUTING, and Add Kubernetes cluster. A table lists repository details: Name (Accident Case Analysis, Crime Case Analysis, Document Classification Analysis, Women - Crime Analysis, policeAnalysis/policeAnalysis), Last commit (Updated, area mapping, Updated, Women -crime Form designs, crime_updated), and Last update (1 month ago, 1 month ago, 1 month ago, 14 minutes ago, 2 hours ago). At the bottom, there is a note to 'Activate Windows' with a link to 'Go to Settings to activate Windows.'

README.md

Topic: The Future of Crime Prevention: Police Case Analysis Using Machine Learning. ID: 2023 - 224

Main Objective: Develop a comprehensive machine learning system that can prevent and solve crimes by analyzing and predicting accident locations, criminal cases, clustering crimes against women and classifying case documents by text analysis. The system aims to enhance public safety by identifying patterns and trends in criminal activity, automating document classification, and providing interactive visualizations to forecast potential future criminal activities.

Main Research Question:

1.How can machine learning algorithms be used to analyze and predict accident locations and connections in police accident cases for targeted safety measures and accident prevention? 2.How can the system used to enhance criminal case analysis and prediction by identifying patterns and trends in the nature of crimes? 3.How can a comprehensive text analysis system be developed to assist police investigation in Sri Lanka to quickly and consistently discover important classification in crime occurrences? 4.How can clustering crimes against women be used to forecast potential future criminal activities and enhance public safety?

Individual Research Question:

IT20003982: How can machine learning models predict future accident locations and causes for accidents? How effective are machine learning algorithms in identifying connections in accident data that may be difficult for humans to detect?

IT19980928:What is the importance of technology-based methods in predicting future criminal activities based on the nature of the crime? Why Current manual methods of analysis are inefficient and often lead to inaccuracies in investigate cases? How Machine learning algorithm could be used to develop an automated system for analyzing criminal cases?

IT20001452:What are the specific challenges faced by law enforcement agencies and the court system in Sri Lanka regarding the handling of criminal cases? What are the current challenges in the criminal case handling procedure in Sri Lanka, and how do they impact the judicial system? How can an automated text analysis system assist in improving the efficiency and accuracy of the criminal justice system in Sri Lanka?

system? How can an automated text analysis system assist in improving the efficiency and accuracy of the criminal justice system in Sri Lanka?

IT20068196:How can clustering-based crime forecasting models accurately predict future locations and types of crimes against women, and identify high-risk areas for such crimes? What is the problem with current crime forecasting models in regards to crimes against women? How can a clustering-based crime forecasting model contribute to the development of effective crime prevention strategies for crimes against women?

Individual Objectives:

IT20003982: Develop a machine learning system that can analyze and predict accident locations, causes as well as identify connections between police accident cases, in order to inform targeted safety measures and accident prevention strategies.

IT19980928:Criminal case analysis System for Police to predicting future crimes cases through identifying patterns and trends in terms of nature of the crime.

IT20001452:Develop an automated text analysis system that classifies crime occurrences into relevant categories for law enforcement agencies in Sri Lanka which helps to improve the accuracy and quality of criminal investigations.

IT20068196:Develop a model for predicting crimes against women.Provide information on the locations and types of crimes against women. Enable law enforcement agencies to take preventive measures and allocate resources more effectively

Other Necessary Information:

Group Members: Dharsan.R - IT20003982 Krishanthini.M - IT19980928 Traveena.C - IT20001452 Anubama.L - IT20068196

6.2 Project Members

The screenshot shows the 'Members' section of a GitLab project. On the left, a sidebar lists various project settings like General, Members, and Integrations. The main area displays a table of existing members and groups for the year 2023-224. The table includes columns for member name, access level, expiration date, and actions. One member, Dhrasan.R, is highlighted with a green 'It's you' badge.

Member	Access Level	Expiration Date	Action
Anubama Logaratnam @Anubama.L_IT20068196	Developer	2025-12-30	
Dhrasan.R_IT20003982 @it20003982DhrasanR	Developer	2025-12-30	
Hansika Mahaadikara @hansika.m	Guest	2025-07-01	
Krishanthini.M @Krishanthini.M_IT19980928	Developer	2025-12-30	
Sanjeevi Sashikala Chandrasiri @sanjeevichan	Guest	2025-07-01	
traveena chandrasegar @it20001452	Developer	2025-12-30	

The screenshot shows the 'Repository' page for project 2023-224. The sidebar includes options like Files, Commits, Branches, Tags, Contributors, Graph, and Compare. The main area shows a list of commits for the 'master' branch. A specific commit for 'Women -crime Form designs' by anubama849 is highlighted. At the bottom right, there is a message about activating Windows.

Name	Last Commit	Last Update
■ Accident Case Analysis	Updated	1 month ago
■ Crime Case Analysis	area mapping	1 month ago
■ Document Classification Analysis	Updated	1 month ago
■ Women - Crime Analysis	Women -crime Form designs	6 minutes ago
■ policeAnalysis/policeAnalysis	crime_updated	2 hours ago
README.md	Update README.md	3 months ago

Activate Windows
Go to Settings to activate Windows.

6.3 GitLab Commits

GitLab Projects Groups More Search or jump to... + Filter by commit message rss

2023-224 > 2023-224 > **Commits**

master 2023-224 Filter by commit message

03 Sep, 2023 15 commits

Women -crime Form designs anubama849 authored 7 minutes ago	470c66cb lock copy
Women -crime future ui updated anubama849 authored 8 minutes ago	4eb33687 lock copy
Women -crime future uicode anubama849 authored 8 minutes ago	ab0c56f6 lock copy
Women -crime future dataset csv updated anubama849 authored 9 minutes ago	62417756 lock copy
Women -crime future crime rate completion anubama849 authored 11 minutes ago	db972476 lock copy
Women -crime data analysis update anubama849 authored 11 minutes ago	23c4c28d lock copy
Women -crime data crime rate prediction anubama849 authored 12 minutes ago	798775d lock copy
Activate Windows Go to Settings to activate Windows.	
Women -crime data analysis completed	

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GitLab Projects Groups More Search or jump to... + Filter by branch name Delete merged branches New branch

2023-224 > 2023-224 > **Repository > Branches**

Overview Active Stale All

Protected branches can be managed in [project settings](#).

Active branches

master default protected ↳ 470c66cb · Women -crime Form designs · 9 minutes ago	lock copy
IT20068196-Anubama.L ↳ 9d0dfe54 · Women updated1 · 1 month ago	27 Merge request Compare lock copy

Stale branches

IT20003982-Dharsan.R merged ↳ a61a35be · Update README.md · 3 months ago	27 0 Merge request Compare lock copy
IT20001452-Traveena.C merged ↳ a61a35be · Update README.md · 3 months ago	27 0 Merge request Compare lock copy
IT19980928-Krishanthini.M merged ↳ a61a35be · Update README.md · 3 months ago	27 0 Merge request Compare lock copy

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2023-224 > 2023-224 > **Contributors**

master History

Commits to master

Excluding merge commits. Limited to 6,000 commits.

Number of commits

May Jun Jul Aug

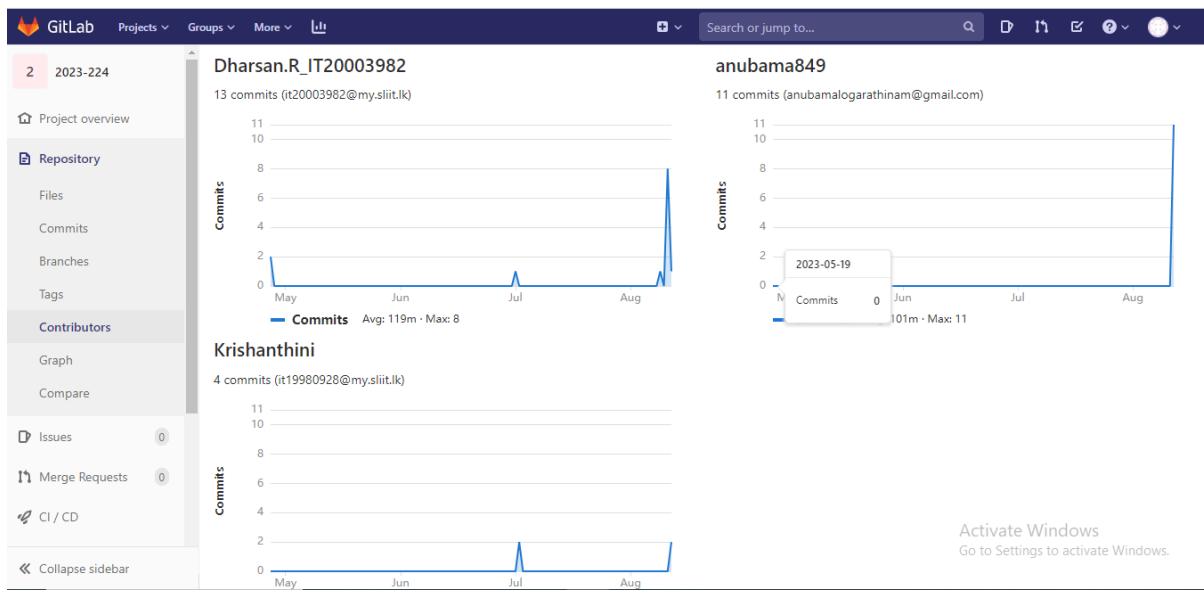
Commits Avg: 257m · Max: 14

Dharsan.R_IT20003982 13 commits (it20003982@my.sliit.lk)

anubama849 11 commits (anubamalogarathinam@gmail.com)

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7. Documentation Work

Completed Documentation

- Topic Assessment Form
- Project Charter
- Project Coversheet
- Proposal Report
- Proposal Presentation
- PP1 Presentation
- Status Document 1
- Research Paper
- PP2 Presentation
- Status Document 2
- Logbook
- Final Report
- Final Presentation