

Unconventional Indicators for Diabetic Diagnosis

Project ID - R24-120

Status Documentation-01

IT21102646 Venuganth A

Decoding Diabetics: Diabetic Retinopathy Detection
using Machine Learning

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1. Microsoft Teams

1.1 Team members

The screenshot shows the Microsoft Teams interface. On the left is a sidebar with navigation icons for Activity, Teams, Chat, Assignments, Calendar, Calls, OneDrive, and Apps. The main area displays the 'Research Project' team. At the top, there's a search bar and a notification bar. Below the team name, there are tabs for 'Members', 'Pending requests', 'Channels', 'Settings', 'Analytics', 'Apps', and 'Tags'. The 'Members' tab is active, showing a list of team members. The list is divided into 'Owners (1)' and 'Members and guests (2)'. The 'Owners' section lists Venuganth A it210... as the Owner. The 'Members and guests' section lists Sangavi.G it210... and Kajanan T it210... as Members. Each member entry includes a profile picture, name, title, location, tags, and role. There are also buttons for 'Add member' and 'Search'.

Name	Title	Location	Tags	Role
Venuganth A it210...				Owner
Sangavi.G it210...				Member
Kajanan T it210...				Member

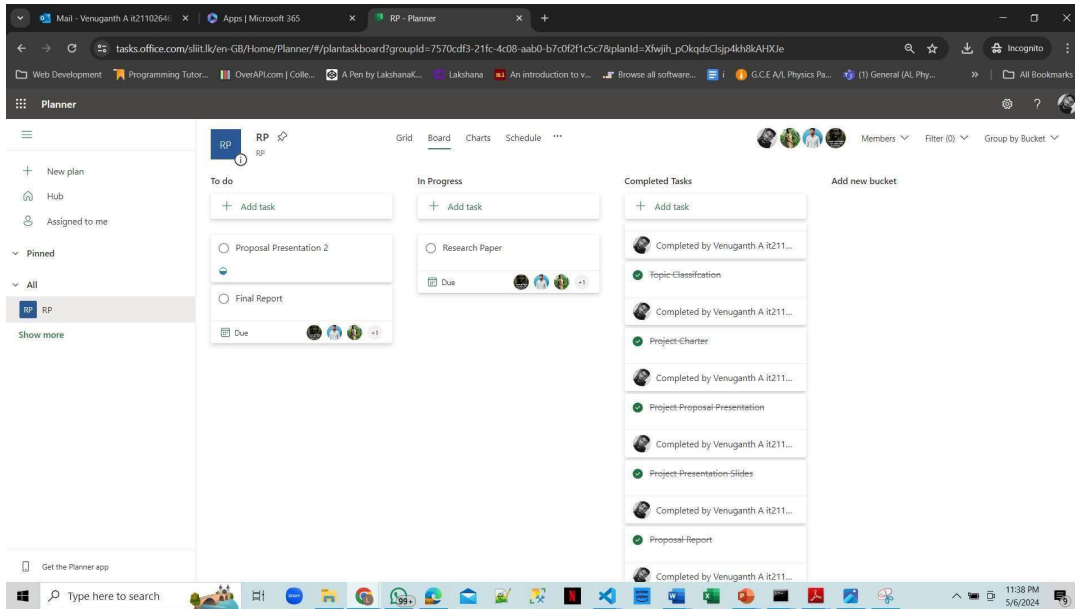
1.2 Teams meeting with Supervisor

The screenshot shows the Microsoft Teams meeting interface for a meeting titled 'Research Paper Discussion'. At the top, there's a search bar and a notification bar. Below the meeting title, there are tabs for 'Chat', 'Files', 'Recap', 'Attendance', 'Speaker Coach', and '+1'. A 'Join' button is visible. The main area displays a list of meeting events: 'Venuganth A it21102646 joined the conversation.', 'Venuganth A it21102646 named the meeting Research Paper Discussion.', 'Wishalya Tissera and 4 others were invited to the meeting.', and '7/10 4:04 PM Meeting ended: 34m 22s'. Below the events, there's an 'Attendance' button. At the bottom, there's a text input field for typing a message and a row of icons for drawing, emojis, mentions, and other meeting controls.

2. MS Teams Planner

2.1 Planner Board

2.1.1. Group Task

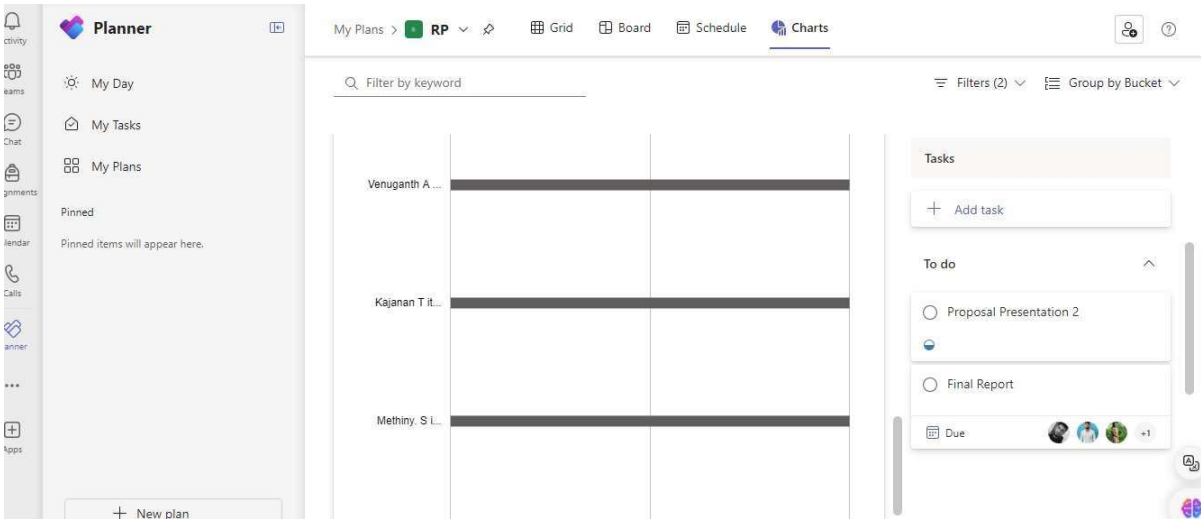
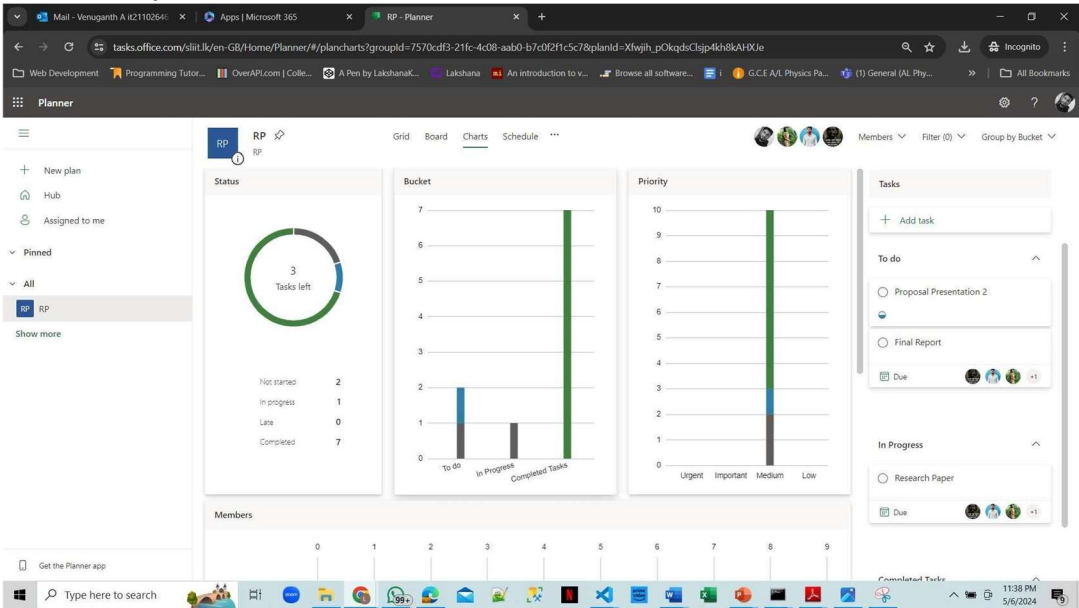


2.1.2. Individual Task

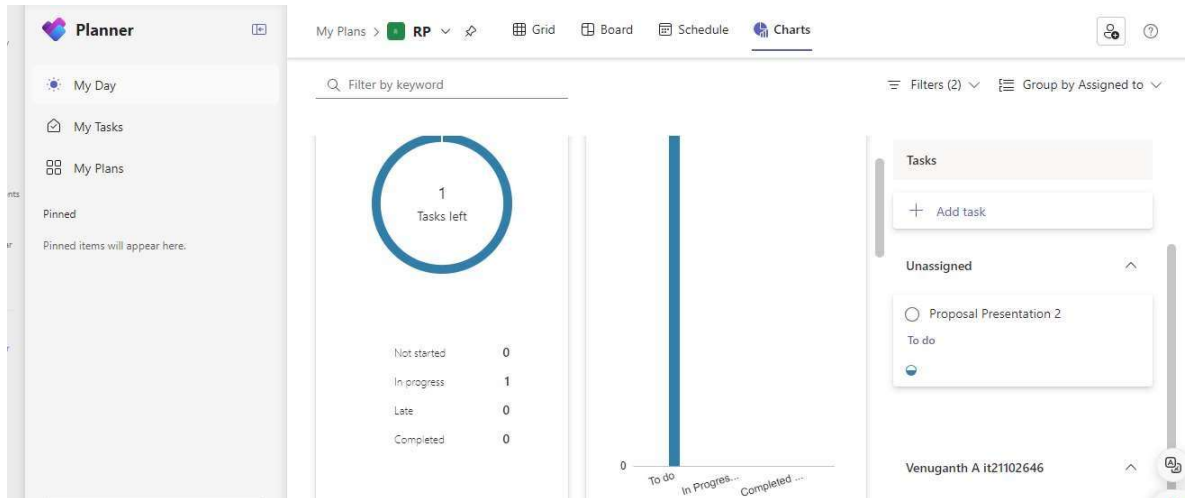
Planner

2.2 Planner Chart

2.2.1. Group Chart



2.2.2. Individual Chart



2.3. Planner Grid

2.3.1. Group Grid

The screenshot shows the Planner application in the 'Grid' view. The left sidebar contains navigation options: New plan, Hub, Assigned to me, Pinned, All, and RP. The main area displays a list of tasks with the following columns: Title, Assignment, Start Date, Due Date, Bucket, Progress, and Priority. The tasks are as follows:

Title	Assignment	Start Date	Due Date	Bucket	Progress	Priority
Find the topic	[User Icons]	6/5/2024		To do	Completed	Medium
Topic Classification	[User Icons]			To do	Completed	Medium
Project Charter	[User Icons]			To do	Completed	Medium
Project Proposal Presentation	[User Icons]			To do	Completed	Medium
Project Presentation Slides	[User Icons]			To do	Completed	Medium
Proposal Report	[User Icons]			To do	Completed	Medium
Proposal Presentation-1	[User Icons]			To do	Completed	Medium
Research Paper	[User Icons]			To do	Not started	Medium
Final Report	[User Icons]			To do	Not started	Medium
Proposal Presentation 2	[User Icons]			To do	Not started	Medium

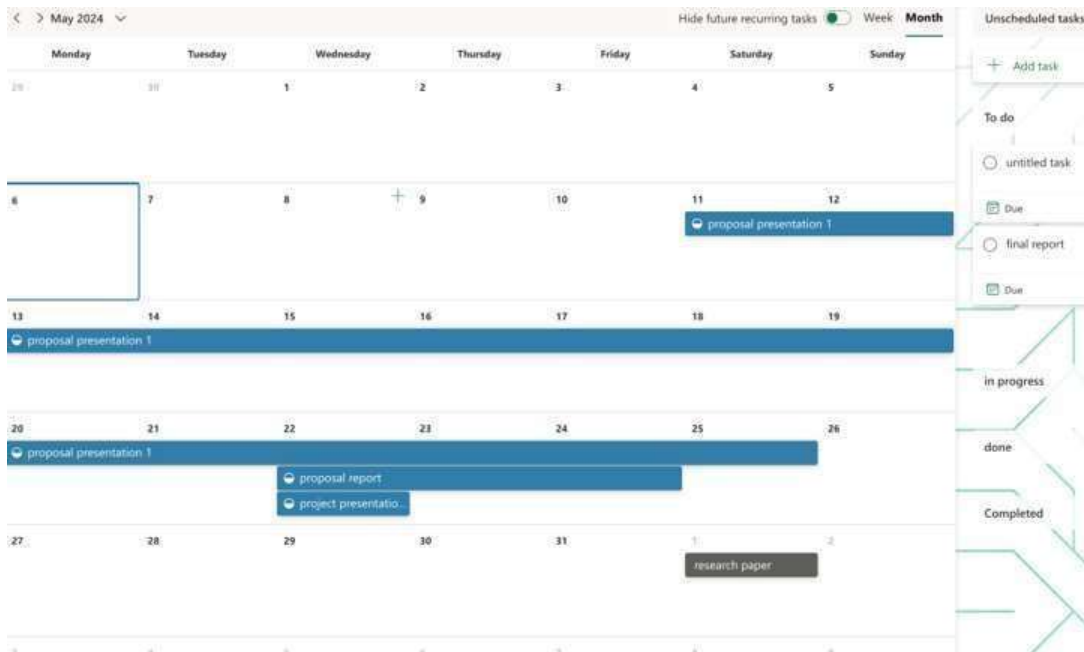
At the bottom of the task list, there is an 'Add new task' button.

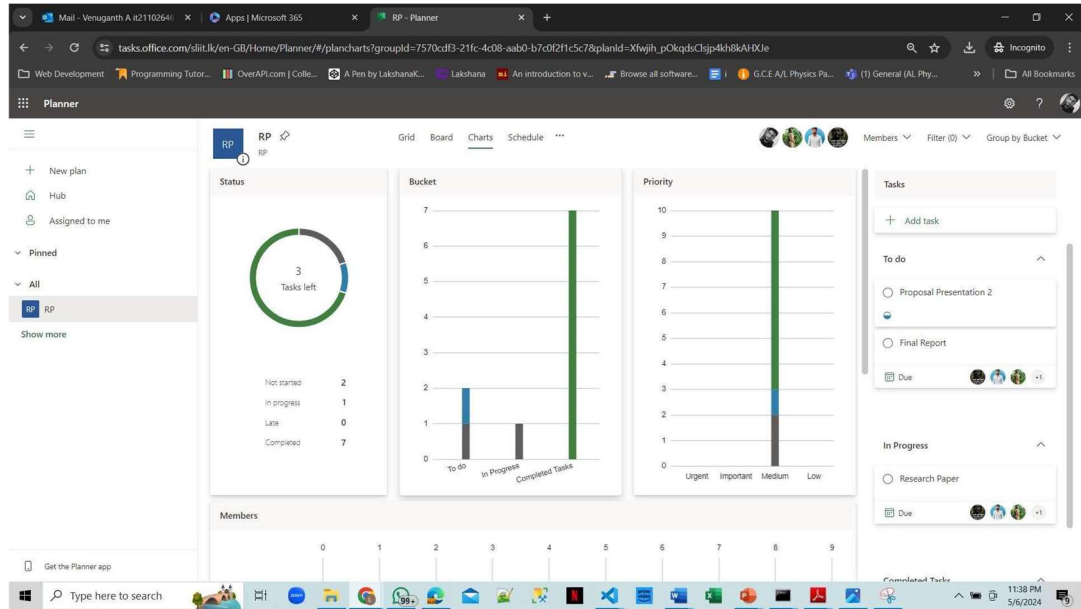
2.3.2. Individual Grid

Title	Assignment	Start Date	Due Date	Bucket	Progress	Priority
Find the topic	[Icons]	6/5/2024		To do	Completed	Medium
Topic Classification	[Icons]			To do	Completed	Medium
Project Charter	[Icons]			To do	Completed	Medium
Project Proposal Presentation	[Icons]			To do	Completed	Medium
Project Presentation Slides	[Icons]			To do	Completed	Medium
Proposal Report	[Icons]			To do	Completed	Medium
Proposal Presentation 1	[Icons]			To do	Completed	Medium
Research Paper	[Icons]			To do	Not started	Medium
Final Report	[Icons]			To do	Not started	Medium
Proposal Presentation 2	[Icons]			To do	Not started	Medium
+ Add new task						

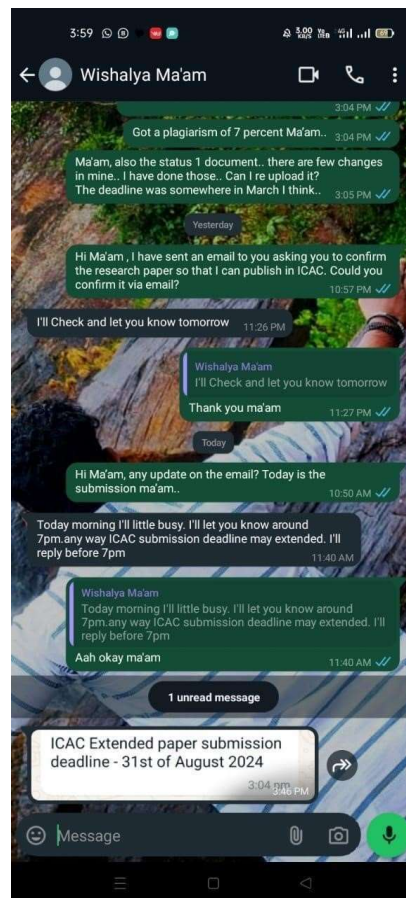
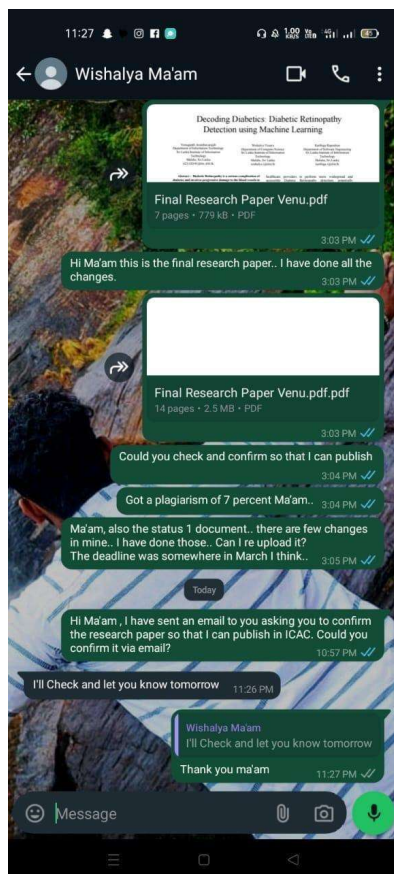
2.4. Planner Schedules

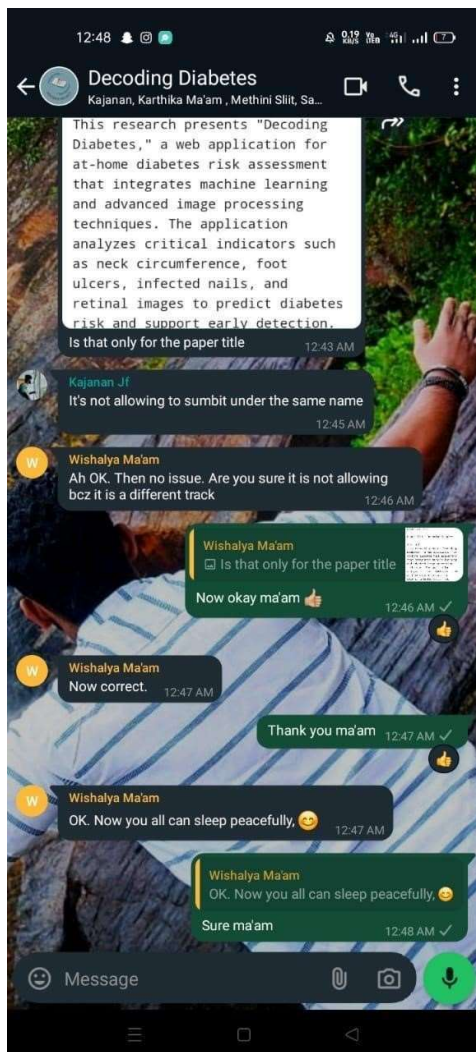
2.4.1. Group Schedules



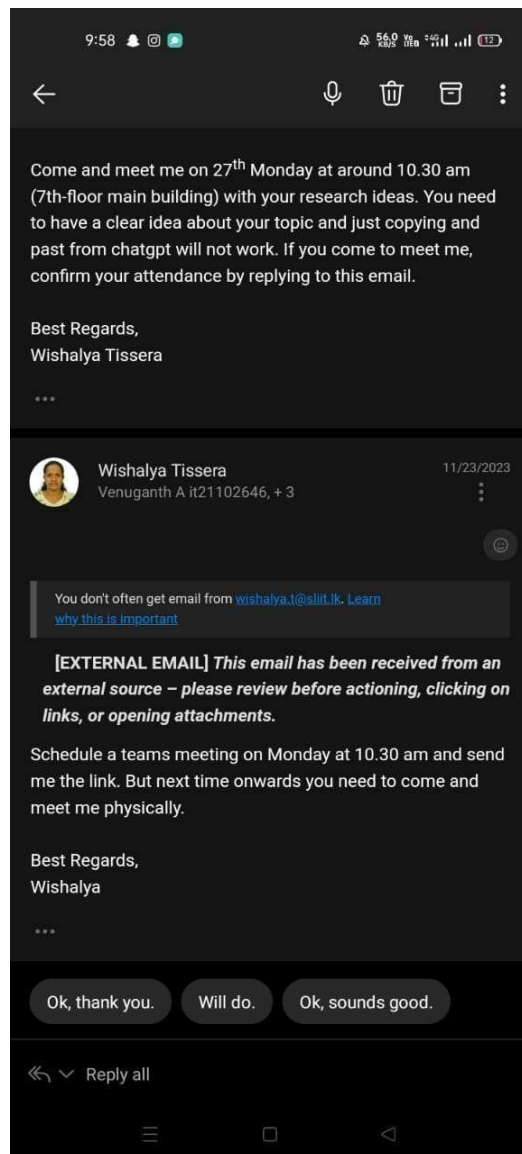
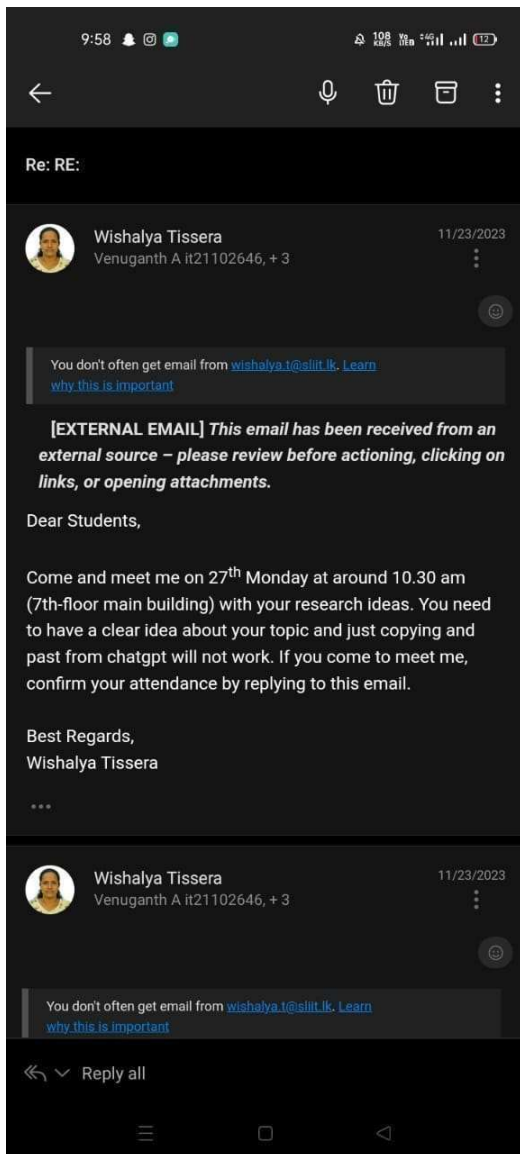


3. WhatsApp Chat with Supervisor

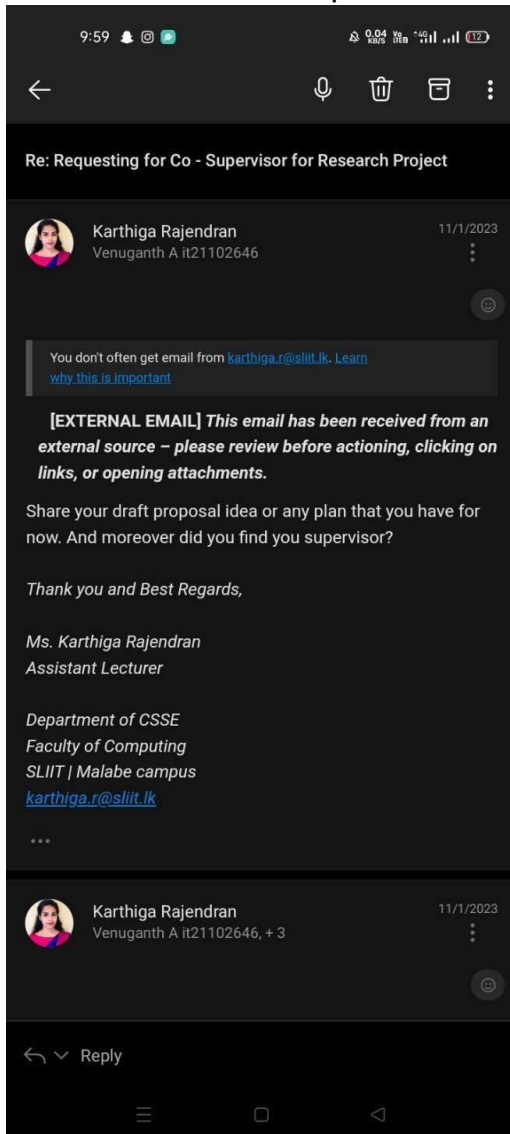




4. Outlook Details with Supervisor



5. Outlook Details with Co Supervisor



6. Gitlab Details

The screenshot shows the GitLab web interface for the 'R24-120' project. The left sidebar contains navigation links for Project, Pinned, Issues, Merge requests, Manage, Plan, Code, Build, Secure, Deploy, Operate, Monitor, Analyze, and Settings. The main content area displays the 'R24-120' project details, including a commit history table, a README.md file preview, and project information. The commit history table shows a single commit 'Update README.md' by 'eSb8e3f8' 2 weeks ago. The README.md file preview shows the following content:

IT21102646 | VENUGANTH A

Sub Objective

Detection of Diabetic Retinopathy and its stages.

Tasks

1. Analyze and clean dataset.
2. Assess accuracy across 3-4 ML algorithms.
3. Develop a model using the most accurate algorithms.
4. Predict the stage of Diabetic Retinopathy
5. Evaluate the model through testing and outcome prediction.
6. Validate the model's effectiveness.

Novelty

This study introduces a novel approach to Diabetic Retinopathy (DR) screening by addressing significant gaps in the existing literature. It uniquely focuses on evaluating the long-term effectiveness and sustainability of DR screening programs, particularly

Project information

UNCONVENTIONAL INDICATORS FOR DIABETIC DIAGNOSIS

Diabetic Sta...

1 Commit

5 Branches

0 Tags

3 KIB Project Storage

README

+ Add LICENSE

+ Add CHANGELOG

+ Add CONTRIBUTING

+ Add Kubernetes cluster

+ Set up CI/CD

+ Add Wiki

+ Configure Integrations

Created on

August 22, 2024

The screenshot shows the GitLab web interface for the 'Skin Monitor' project. The left sidebar contains navigation links for Project overview, Repository, Files, Commits, Branches, Tags, Contributors, Graph, Compare, Issues, Merge Requests, CI / CD, Operations, Analytics, Wiki, Snippets, and Collapse sidebar. The main content area displays the 'Skin Monitor' project details, including a commit history table, a README.md file preview, and project information. The commit history table shows a single commit 'The file has been successfully created.' by 'IT21150098 | Rushanth B' 2 weeks ago. The README.md file preview shows the following content:

4. Evaluate the model through testing and outcome prediction.

The file has been successfully created.

Novelty This valuable information empowers individuals to discern skin diseases by recognizing specific nuances in their skin tones. Early identification based on these subtle variations facilitates prompt intervention and tailored treatment. It enhances awareness about the diverse manifestations of skin conditions across different skin tones. Ultimately, this knowledge fosters proactive self-care and timely medical

IT21150098 | Rushanth B

Sub Objective Calculation of effective percentage and cure percentage

Tasks

1. Analyze and clean dataset.
2. Assess accuracy across 3-4 ML algorithms.
3. Develop a model using the most accurate algorithms.
4. Evaluate the model through testing and outcome prediction.
5. Validate the model's effectiveness.

Novelty Utilizing the effective percentage aids in predicting the current disease stage, offering insights into its progression. Comparing this with the earliest stage allows for analyzing the extent of successful treatment. This data-driven approach informs decisions on ongoing care and underscores the importance of adaptive interventions.

IT19178882 | Sujeevan K

Sub Objective Based on the effective percentage providing solutions for early-stage diseases (in text format and audio format by recommending the video)

Tasks

1. Analyze and clean dataset.
2. Assess accuracy across 3-4 ML algorithms.
3. Develop a model using the most accurate algorithms.
4. Evaluate the model through testing and outcome prediction.
5. Validate the model's effectiveness.

Novelty Utilizing both text and audio formats enhances solution accessibility for those with speaking disabilities. Video demonstrations further amplify effectiveness by providing visual guidance for recommended treatments for early-stage diseases. This multi-modal approach caters to diverse learning preferences and ensures inclusive communication.

Q Search or go to...

Project

R24-120

Pinned

Issues0

Merge requests0

Manage

Plan

Code

Build

Secure

Deploy

Operate

Decoding Diabetes / R24-120

IT21102646 | VENUGANTH A

Sub Objective

Detection of Diabetic Retinopathy and its stages.

Tasks

1. Analyze and clean dataset.

2. Assess accuracy across 3-4 ML algorithms.

3. Develop a model using the most accurate algorithms.

4. Predict the stage of Diabetic Retinopathy

5. Evaluate the model through testing and outcome prediction.

6. Validate the model's effectiveness.

Novelty

This study introduces a novel approach to Diabetic Retinopathy (DR) screening by addressing significant gaps in the existing literature. It uniquely focuses on evaluating the long-term effectiveness and sustainability of DR screening programs, particularly in the face of evolving patient demographics and healthcare advancements. Additionally, the study incorporates a patient-centric evaluation, integrating patient satisfaction and engagement metrics to enhance the understanding of participation and experience in screening programs. Moreover, it emphasizes the rigorous real-world validation of predictive models, ensuring their accuracy and reliability across diverse populations, which is often underexplored in current research.

Project information

UNCONVENTIONAL INDICATORS FOR DIABETIC DIAGNOSIS

Diabetic Sta...

1 Commit

5 Branches

0 Tags

3 KiB Project Storage

README

Add LICENSE

Add CHANGELOG

Add CONTRIBUTING

Add Kubernetes cluster

Set up CI/CD

Q Search or go to...

Project

R24-120

Pinned

Issues0

Merge requests0

Manage

Activity

Members

Labels

Plan

Code

Build

Secure

Deploy

Operate

Decoding Diabetes / R24-120 / Members

Project members

You can invite a new member to R24-120 or invite another group.

Import from a project

Invite a group

Invite members

Members2

Pending invitations2

Access requests1

Filter members


Q

Account

Filter

Account	Source	Role	Expiration	Activity
<div><div></div><div>it21083228 Methiny, S</div><div>@it21083228</div></div>	Inherited from Decoding Diabetes	Developer	<div>Expiration date</div> <div></div>	<div>8+ May 06, 2024</div> <div>✓ Aug 23, 2024</div> <div>✗ May 06, 2024</div>
<div><div></div><div>it21102646 Venuganth A</div><div>@it21102646</div></div>	Inherited from Decoding Diabetes	Owner	<div>Expiration date</div> <div></div>	<div>8+ Aug 23, 2024</div> <div>✓ Aug 23, 2024</div> <div>✗ Sep 11, 2024</div>

13 | Page



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📄 1

🔍 Search or go to...

Project

Merge requests

0

Manage

>

Plan

>

Code

>

Merge requests

0

Repository

Branches

Commits

Tags

Repository graph

Compare revisions

Snippets

Build

>

Secure

>

Help

Decoding Diabetes / R24-120 / Branches

Overview

Active

State

All

Filter by branch name

🔍

View branch rules

New branch

⋮

Active branches

<div>main</div> <div>default</div> <div>protected</div> <div>e5b8e3f8 · Update README.md · 2 weeks ago</div>			<div>📄</div>
<div>IT21069772_Nack</div> <div>7c86ca78 · Initial commit · 2 weeks ago</div>	10	<div>👤 New</div>	<div>📄</div>
<div>IT21083228_Nail</div> <div>7c86ca78 · Initial commit · 2 weeks ago</div>	10	<div>👤 New</div>	<div>📄</div>
<div>IT21085062_Foot</div> <div>7c86ca78 · Initial commit · 2 weeks ago</div>	10	<div>👤 New</div>	<div>📄</div>
<div>IT21102646_DR</div> <div>7c86ca78 · Initial commit · 2 weeks ago</div>	10	<div>👤 New</div>	<div>📄</div>

📄

👤

7. Gantt Chart



8. Work Breakdown Chart

