1. **Sprint Goal**

Sprint Goal In this sprint 4, we are going to implement the model evaluation, performance optimization, testing, and deployment of the email summarization system.

1. **Backlog Items**

* *Email summarization (Backlog added from prev. sprint)*.
* Filtering emails
* Model Evaluation for Summarization
* Performance Optimization
* Testing the Accuracy & Validation
* List of **User Stories** or **Tasks** selected for the sprint, including:
  + **Summary**

This sprint focuses on improving email summarization, optimizing email filtering, evaluating model performance, enhancing efficiency, and deploying the model.

* + **2. Description**

The tasks involve refining summarization techniques, categorizing emails accurately, assessing model performance using key metrics, optimizing model speed and efficiency, and ensuring successful deployment.

* + **3. Acceptance Criteria**

Emails must be summarized effectively with improved accuracy.

Emails should be categorized into correct groups without errors.

Model evaluation should include precision, recall, and accuracy metrics.

Optimized model should show improved speed and lower resource consumption.

Testing must confirm the model is functional before deployment.

| **Key** | **Summary** | **Description** | **Acceptance Criteria** |
| --- | --- | --- | --- |
| Task -1 | " Email Summarization" | "Work on email summarization techniques for better accuracy." | " Improved and meaningful email summaries generated." |
| Task-2 | “Filtering Emails” | “Optimize email categorization into relevant groups for better organization.” | “Emails are accurately categorized into predefined groups.” |
| “Task-3” | “Model Evaluation” | “Evaluate the summarization model for accuracy, precision, and recall metrics.” | “Model performance metrics analyzed and documented.” |
| Taks-4 | “Performance Optimization” | “Improve model efficiency by reducing processing time and optimizing resource usage.” | “Optimized model with reduced latency and better efficiency.” |

1. **Team Assignments**

* **Rakesh** – Model Evaluation and Performance Optimization.
* **Sathvik** – Email Summarization and Testing & Deployment.
* **Purushottam** – Email Summarization and Filtering Emails.
* Details of who is responsible for each task:
  + **Task Owner**: The main person working on it.
  + **Collaborators**: Any supporting team members.
  + **Due Date**: Estimated completion date for the task.

**4. Effort Distribution**

| **Member** | **Tasks Assigned** |
| --- | --- |
| Rakesh | Task-3, Task-4 |
| Purushotham | Task-1, Task-2 |
| Sathvik | Task-1, Task-5 |

**5.Increment for Sprint 4**

We have successfully completed the mid-term with progress showcasing the Dataset and Classification of emails

The summary of previous sprint increment involves gathering manual data, categorizing the emails in the dataset to different sectors. We have done the pre-processing and classification in the previous sprint with the code that is uploaded in GitHub which can be accessed from our wiki page. The summarization of emails will be covered in the current sprint as part of previous backlog (incomplete task)

GitHub Link : https://github.com/Kaleemunnisa/CS691-Spring2025-Team5