# Sprint Goal

In this **Sprint**, the focus will be on improving system integration b/w frontend and backend, with the background pending tasks on the NLP model training part, enhancing the summarization accuracy for the Chrome extension to be displayed.

# Items

# Performance Optimization & Feature Enhancements

* Improve NLP **Model Accuracy** by reducing the complexity of classification code within backend.
* Optimize **API response time and security** to handle concurrent requests (involved in frontend and backend integration).
* Enhance **Chrome Extension UI/UX** for a better user experience.

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| **Key** | **Summary** | **Description** | **Acceptance Criteria** |
| Task -1 | Enhance Email Summarization | Improve the NLP model’s classification accuracy by fine-tuning it. | Summaries are more concise and meaningful.  Model evaluation metrics (e.g., LSTM) show improvements. |
| Task-2 | Improve Integration of Chrome Extension | Enhance the extension’s frontend for a faster experience. | Summarized emails are displayed in a user-friendly format. Users can customize settings (date range, email categories). |
| **Key** | **Summary** | **Description** | **Acceptance Criteria** |
| Task-  3 | Optimize API Performance & Security | Improve the API’s efficiency and implement security measures. | API handles concurrent requests effectively. Security measures (rate limiting, authentication) are implemented. |

# 2. Team Assignments

* **Rakesh** – Task-3 (API Optimization & Security)
* **Sathvik** – Task-1 (NLP Model Enhancement)

# • Purushottam – Task-2 (Improvement for Chrome Extension)

# 4. Effort Distribution

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| **Member** | **Tasks Assigned** |
| Rakesh | Task-3 |
| Purshotham | Task-2 |
| Sathvik | Task-1 |

# 5.Increment for Sprint -6

# NLP Improvement – Enhance summarization accuracy.

# UI Communication Enhancements – Improve Chrome extension UX.

# Performance & Security – Ensure API stability.

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