

EE/CprE/SE 492 WEEKLY REPORT 2

01/31/2025 – 02/13/2025

Group number: 35

Project title: Universal Response Engine: LLMs for Good

Client &/Advisor: Ahmed Nazar and Mohamed Selim

Team Members/Role:

Abraham Toutoungi - Stakeholder Liaison

Gabriel Carlson - Communications Manager

Halle Northway - Meeting Coordinator

Brianna Norman - Project Deliverables Manager

Ellery Sabado - Timeline Coordinator

Emma Zatkalik - Assignment Manager

Weekly Summary

This week we had our group split into two teams: front-end and back-end. Front-end will, obviously, be focusing on the development of the front-end of our website. The back-end team will be handling RAG chains and dataset collection. We created a basic RAG on our VM using FAISS and have a flask server to host our website. We also migrated our work to git.

Past Week accomplishments

- Spun up flask server to host website
- Migrated to git

Pending Issues

- Gathering focused datasets
- RAG chain development
- Finalized front-end

Individual Contributions

Name	Individual Contributions	Hours this week	Hours cumulative
Abraham Toutoungi	<ul style="list-style-type: none">- Migrated work to git- Worked on the front end- Looked into different datasets	6	69
Gabriel Carlson	<ul style="list-style-type: none">- Worked on disclaimer- Worked on connecting the frontend and backend	7	64

	<ul style="list-style-type: none"> - Refactored Abes JS - Added a loading icon - Worked on error handling - Fixed CORS - Setup Nginx to work as a static file server - Setup Gitlab Runners - Setup CI/CD pipeline for frontend 		
Halle Northway	<ul style="list-style-type: none"> - Established dataset topics - Set up Flask API on the VM - Created basic RAG on the VM 	6	62
Brianna Norman	<ul style="list-style-type: none"> - Looked into RAG chains again - Gathered info and resources for focused dataset 	6	68
Ellery Sabado	<ul style="list-style-type: none"> - Worked on finetuning model <ul style="list-style-type: none"> - Exhausting method - Compared finetune LLM response vs the dataset response - Established dataset topics - Collected more dataset for my specific topics 	6	69
Emma Zatkalik	<ul style="list-style-type: none"> - Dataset research and collection - Assisted with RAG setup on VM 	6	69

Comments and extended discussion (optional)

N/A

Plans for upcoming week

- Complete focused datasets
- RAG chain development
- Finalized front-end

Summary of weekly advisor meeting

- Discussed writing a paper to submit for IEEE International Conference on E-health Networking, Application & Services (April 30)
- Went over demo
- Spoke about individual progress for RAG Chains, Frontend, Backend, and dataset assignments