LATH NISHTHA

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RESEARCH AND PUBLICATIONS

Evaluating LLaMA Model for Enhanced Conversational AI in Voice Recognition Kiosks: A Case Study on RASA vs. LLaMA

- Conducted a comparative analysis of **LLaMA** and **RASA** frameworks, highlighting LLaMA's superiority in handling dynamic and complex retail environments.
- Won the **Excellent Paper Award** (Top 4 out of 47 teams) at conference **UCWIT 2024**, presented by the President of KIISE.
- **Github**: UCWIT-2024-ResearchPaper-Github

PROFESSIONAL EXPERIENCE

Frontend Developer Intern (Team Leader) - RikkeiSoft Corp   DEC 2024 - JAN 2025

- Developed the frontend of company's website AI chatbot - using **React.js** (**TypeScript**) & **Tailwind CSS**, ensuring a seamless user experience.
- Implemented features like role-based dashboards for users and admins, enhanced admin-exclusive functionalities such as file and weblinks management and prompt customization.
- **Github**: InflowChat_Organisation_Code_Github

Undergraduate Lab Intern — Intelligent Software Systems Lab   OCT 2025 - DEC 2025

- Developed a **RAG-based disaster response assistant** integrating legal manuals, population data, and geo-spatial risk information using **FAISS**, **LangChain**, and several **LLM** models.
- Implemented **retrieval pipelines**, **optimized prompt construction** and **vectorstore ingestion**, and optimized **FastAPI** backend logic for faster, more accurate **disaster-scenario generation**.
- **Github**: RAG_System_Github

PROJECTS

SheBots – AI integrated RAG Chatbot for Department Website   SEP 2025 - DEC 2025

- **Led backend** and **AI** of SheBots, using the **FastAPI backend** integrating GPT-4.1 with **hybrid RAG pipeline** using **LangChain** + **FAISS** and Deployed services on **AWS EC2** using **Docker**, **NGINX reverse proxy**, and system-level debugging (disk expansion, **CORS**, port binding).
- **Github**: SheBots_GitHub

Backend Developer – KERT Cybersecurity Club Website   Aug 2024 – Nov 2024

- Using **Java** and **Spring Boot**, designed secure RESTful APIs, managed databases with **JPA/Hibernate**, and optimized server performance.
- Built and tested schemas with **H2 in-memory database** and streamlined project structure and dependencies with **Gradle**, enhancing build efficiency and maintainability.
- Github: KERT_Backend_Code_Github

EDUCATION

Bachelor in Computer Science and Engineering │ **Kyungpook National University** │ **GPA** (3.55/4.3) │ (2022~2026)

High School │ **St. Xavier's High School**, Balrampur │ 89.4% │ (2020-2021)

ADDITIONAL INFORMATION

- **Languages:** English **- Advanced Proficiency (Fluent),** Korean **- Advanced Proficiency (TOPIK Level 5 - Certificate_Link)**, Hindi **(Fluent - Native Speaker)**
- **Leadership & Extracurricular Activities:** International Student Representative, International Student Organization (ISO) Member, KERT Cybersecurity Club Member.
- **Awards/Activities:** Consecutive wins **Dance**, **Debate** and **essay** competitions.