

## CONTACT

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### Github

<https://github.com/NishthaLath>

### LinkedIn

<https://www.linkedin.com/in/nishtha-lath-335206276/>

## SOFT SKILLS

- Teamwork
- Time Management
- Leadership
- Effective Communication
- Critical Thinking

## TECH SKILLS

- Programming Languages:** Python, Java, JavaScript, C, C++, HTML, CSS
- Frameworks & Tools:** Node.js, React, Spring Boot, Docker, PyTorch, Hugging Face, Google Colab
- Networking and protocols:** TCP/IP protocols, socket programming, and communication protocols
- Machine Learning:** NLP, Conversational AI, Large Language Models (LLMs), Dataset Creation
- APIs & Cloud Services:** Google Cloud (Speech-to-Text, Text-to-Speech, Maps), RESTful APIs Design
- OS:** Ubuntu, Windows

## EDUCATION

- Kyungpook National University**  
BS Computer Science and Engineering (2022-2026)  
**GPA: 3.40/4.3 (Currently)**
- St. Xavier's High School, Balrampur**  
High School Diploma (12th) (2020-2021)  
**Grades: 89.4%**
- St. Xavier's High School, Balrampur**  
High School Diploma (10th) (2018-2019)  
**Grades: 94%**

## LANGUAGES

- English- Advanced Proficiency**(Fluent)
- Hindi** (Fluent - Native Speaker)
- Korean - Advanced Proficiency** (TOPIK Level 5)



# LATH NISHTHA

## COMPUTER SCIENCE STUDENT

Innovative and Result-driven with a keen interest in AI, Natural Language Processing (NLP), Web Development and Cybersecurity.



## RESEARCH AND PUBLICATIONS

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

- Presented at conference **UCWIT 2024**, hosted by the **Korean Institute of Information Scientists and Engineers (KIISE)**.
- 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)**, presented by the **President of KIISE**.
- Github:** [UCWIT-2024-ResearchPaper-Github](#)



## PROJECTS

### 길: 벗 (Visioned) - Accessible Public Transportation Kiosk OCT 2024 - NOV 2024

- Developed a public **transportation kiosk** tailored for seniors, simplifying navigation through intuitive, **voice-driven interfaces**.
- Lead** the **backend** using **Node.js** and integrated **Google Cloud APIs(STT, TTS & MAPS)** for speech recognition and route optimization.
- Worked on **React-based frontend**, **Material UI** with **team** prioritizing accessible UI.
- Github:** [Map\\_Kiosk\\_Code\\_Github](#)

**Technologies Used:** Node.js, React, Google Cloud APIs, RESTful APIs

### Ai-Driven Voice Recognition Kiosk For Cafe Orders SEP 2024 - PRESENT

- Developing a **voice-command-based kiosk** with **team**, leveraging the **LLM based LLaMA model** to improve accessibility for elderly and disabled users.
- Implemented **Prompt Engineering** to handle complex and ambiguous commands.
- Utilized libraries like **Transformers** and **PyTorch** for training and fine-tuning the **LLaMA 3 model**.
- Conducted **testing and Fine-tuning** of models with the **Unsloth framework**.
- Deployed fine-tuned models on the **Hugging Face Hub** ([View Model](#)) and tested for complex scenarios using **LM Studio**.
- Currently leading** on **Front End of the kiosk** for real-world application.
- Github:** [Kiosk\\_Organisation\\_Code\\_Github](#)

**Technologies Used:** Python, PyTorch, Transformers, Hugging Face, LLaMA 3, Unsloth, LM Studio

### Backend Developer - KERT Cybersecurity Club Website AUG 2024 - NOV 2024

- Led** the **backend development** for the official website of **KERT**, the university's **cybersecurity club website**, 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** for seamless query execution and reliability.
- Streamlined project structure and dependencies with **Gradle**, enhancing build efficiency and maintainability.
- Github:** [KERT\\_Backend\\_Code\\_Github](#)

**Technologies Used:** Java, Spring Boot, JPA/Hibernate, H2 Database, Gradle, RESTful APIs



## ACHIEVEMENTS

- Global Korea Scholarship Recipient (2022):** Awarded a **fully-funded** scholarship covering my 4-year undergraduate degree in Computer Science Engineering in Korea.
- 2nd Prize, International Student Talent Show:** Recognized for an exceptional dance performance **showcasing my country's cultural** creativity.
- Excellent Paper Award, UCWIT 2024:** Honored for submitting **outstanding research** results, awarded by the **President of KIISE**.



## EXTRACURRICULAR ACTIVITIES

- Member, International Student Organization (ISO):** Organized cultural and language exchange programs to support and engage international students.
- Cybersecurity Enthusiast:** Competed in various **Capture the Flag (CTF)** events, developing expertise in **web security, reversing, cryptography**, and tools like **Docker** and **Burp Suite**.
- Dance Enthusiast:** Achieved **consecutive wins** in departmental and university talent shows; active member of **Terpsichore**, the **university's largest dance club**.
- Confident Debater:** Secured **multiple awards** in debate competitions conducted in both **Korean and English**.