

김용빈

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Personal Statement

With a strong passion for Artificial Intelligence, I'm a 3rd grade student majoring in Information and Communication Engineering at Dongguk University. In addition to my major, I am studying Data Science Software as a minor and actively participating in AI research as an undergraduate researcher. Committed to continuous learning and growth, I strive to deepen my expertise and contribute to the field of AI.

Education

Dongguk University, Seoul, Korea

Major : Information and Communication Engineering (2023.03~)

Minor: Data Science Software(2024.03~)

Certifications

TOEIC : 900+

Microsoft Certified : Azure AI Fundamentals AI-900 (2024.01.12)

Microsoft Certified : Azure Fundamentals AZ-900 (2024.01.24)

KT Certified: KT AICE Basic (2024. 07. 25)

ADsP (2024. 09. 06)

Technical Skills

- Front-end: HTML, JavaScript, CSS, React
- Back-end: Flask, Node.js, Sqlite3, MySQL
- AI: PyTorch, Tensorflow
- Others: Git & Github, Slack, Notion, AWS

Work Experience

Development of an automated hospital reception system

May – August 2021

- Development of an automation system to improve reception turnover rates in overcrowded hospitals during the COVID-19 pandemic.

- Used Skills
 - Facenet, ResNet, Tensorflow
 - Adafruit Fingerprint, Raspberry Pi, Flask
 - HTML, JavaScript, CSS, MySQL

Development of a school website with improvements

July – August 2022

- Improvement and addition of features such as tags and bulletin board functions to address inconveniences on the school website
- Used Skills
 - HTML, JavaScript, CSS
 - Node.js, Vue.js, Vuetify
 - Firebase Realtime Database, MySQL

LLM Korean Performance Improvements and Optimizations

June – July 2024

- Participate for Individual Research Course
- Optimization of Llama 3 model's Korean Language processing performance and Finetuning to maximize accuracy and efficiency
- Used Skills
 - Model: Llama 3
 - Fine-tuning: PEFT, DPO, QLoRA

Development of a System for Identifying and Reporting At-Risk Children in Child Abuse

August – September 2024

- Development of a Application for Identifying At-Risk Children Through Regular Self-Assessment with a Simple Chatbot counseling
- Contribution
 - Develop a Chatbot for Counseling Children using GPT model, Prompt-Engineering, Fine-tuning.
 - Development of a page for counseling with a Chatbot

Multimodal sLLM Research

September – December 2024

- Participate for Individual Research Course
- Developing a Chatbot for Elderly People Living Alone (Voice conversation with elders)
- Contribution
 - Used Model: ko-Gemma, GPT-4o, KoMultiGen-General
 - Generate Multi-Turn Conversation Dataset Between Elders and System
 - Fine-tuned the ko-Gemma model and verified its ability to generate more contextually appropriate responses.

Olympic Park Public Data Utilization Competition

October – November 2024

- Personalized Tour Course Recommendations based on Olympic Park visit purposes using public data

ICONICTHON

November 2024

- Development of a Meal Ticket Purchase Application for University Cafeteria
- Participate Hackathon as a 'Front-end'

Multimodal sLM for Visual Data Analysis

December 2024 ~Still in progress

- 'Saltware' Corporate Project
- Development of a Multimodal sLM that outputs information based on given visual graphs

Study & Education

Naver Boostcourse Coaching Study

- Data Science Projects 2024 (2024.01.11 ~ 2024.02.02)
- Let's AI 2024 (2024.05.20 ~ 2024.06.16)

SKT AI Curriculum (2024.01.08 ~ 2024.02.02)

LG Aimers

- Completion of the 4th program, Development of a B2B sales opportunity prediction model based on MQL data (2024.01.02 ~ 2024.02.26)
- Online AI Practical Training (2024.05.01~2024.06.30)

SK AI DATA ACADEMY Intermediate Course (2024.07.03~2024.08.14)

- Development of CCTV Image classification model
- Development of Sound classification Model for the deaf person

Volunteer Works & Social Activities

Dongguk University Danvinci program 11th (2023.12~)

**Incheon Sangjeong High School, Coding Maker club Instructor
(2024.04~2024.12)**

- Conduct Basic Python education
- Conduct a simple game development project using Pygame
- Conduct a Personalized Chatbot development project using Prompt-Engineering.

**Participation as a Mentor in the Youth Digital Problem-Solving Project Hosted
by 'Alpaco' (2024.09)**

**Participation as a Mentor in the Youth Digital Problem-Solving Project Hosted
by 'Elice' (2024.10~2024.11)**

Software Club Activities

- Dongguk University Farm System (2024.06~)
- Prometheus (2025.09~)