JONGHWI KIM

+82 10-4802-5319
jhkim980112@postech.ac.kr
github.com/jonghwi-kim

EDUCATION

POSTECH   Pohang, S.Korea
M.S. in Graduate School of Artificial Intelligence   Feb 2023 - Feb 2025 (Expected)
- POSTECH NLP Group

Kwangwoon University   Seoul, S.Korea
B.S. in Information Convergence   Mar 2017 - Feb 2023
- Major : Data Science
- Total GPA : 4.04/4.5 | Major GPA : 4.04/4.5
- Related Coursework
  : Machine Learning, Data Mining, Database, Data Structure, Discrete Mathematics, AI Mathematics, etc

RESEARCH INTEREST

Information Retrieval, Cross-modal Retrieval, Cross-lingual Retrieval, Cross-lingual Transfer Learning

WORK EXPERIENCE

Artificial Intelligence Research Center, KETI   Apr 2022 - Nov 2022
Research Intern   Pangyo, Gyeonggi-do
- Participated in NLP team and NLP-related research projects
- Conducted refactoring and debugging on ongoing project and Performed from data collection to model learning and evaluation
- Built a sentiment analysis model and Submitted a paper as the first author to the domestic conference and was finally accepted

PUBLICATIONS

A Clustering-based Undersampling Method to Prevent Information Loss from Text Data   Oct 2022
The 34th Annual Conference on Human & Cognitive Language Technology(HCLT)   Gyeongju, S.Korea

PROJECT EXPERIENCES

News Rank Analysis and Issue Detection Algorithm based on Keyword   March 2023 - Oct 2023
Participating Researcher | Industry-Academia Project with SK-Hynix

Multi-modal Interaction Artificial Intelligence Technology that interacts with humans   July 2022 - Nov 2022
Project Engineer | Research Project at AIRC-KETI
- Knowledge-based conversation system that utilizes image and text data in fashion domains
- Developed a sentence-level sentiment analysis model using KE-T5 which is a Korean-English T5 model
- Developing and researching a model that enables to extract aspect based sentiment polarities

Sentiment Analysis on Stock Market through the News Articles   Apr 2022 - Nov 2022
NLP Model Engineer | Capstone Design Project
- Web service that provides summarized news and sentiment polarity related to the stock market
- Conducted web scraping on news and labeled sentiment polarity in summarized news
- Developed a model that summarizes news articles and predicts sentiment polarities in the stock market

Prediction of the Ambulance Arrival Time
Team Leader | Fire Safety Innovation Service Idea Contest

Nov 2021

- Development of a prototype model for predicting ambulance arrival time using deep learning
- Conducted EDA, preprocessed data, and built a simple DNN model

AWARDS & HONORS

Awards

1st Place
Capstone Design Competition

Nov 2022
Kwangwoon University

2nd Place
Fire Safety Innovation Service Idea Contest

Nov 2021
Korea Fire Safety Big Data Platform

Dean's List
Academic Excellence Award

Fall 2019
Kwangwoon University

Dean's List
Academic Excellence Award

Spring 2019
Kwangwoon University

Honors

Software Excellence Scholarship
Awarded to software excellent students in Software Convergence College

Dec 2023
Kwangwoon University

Ulsan Dream Scholarship
Awarded to academic excellent students from Ulsan

May 2022
Ulsan Institute for Talent & Lifelong Education

Software Excellence Scholarship
Awarded to software excellent students in Software Convergence College

Dec 2019
Kwangwoon University

1st Place
Top 1 of 34 undergraduates in the department for the semester

Fall 2019
Kwangwoon University

SW Interdisciplinary Course Excellence Scholarship
Awarded to academic excellent students in SW Interdisciplinary Course

Fall, Spring 2019
Kwangwoon University

2nd Place
Top 2 of 57 undergraduates in the department for the semester

Fall 2018
Kwangwoon University

SW Interdisciplinary Course Excellence Scholarship
Awarded to academic excellent students in SW Interdisciplinary Course

Fall, Spring 2018
Kwangwoon University

Academic Excellence Scholarship
Awarded to academic excellent students in the department

Spring 2017
Kwangwoon University

TEACHING EXPERIENCES

SOWON Supporters
Instructor

Sep 2019 - Dec 2019
Nowon Career Center for Youth and Future

- Instructed elementary students in MODI Block Coding

Software Summer School Tutor
Teaching Assistant

Aug 2019
Kwangwoon University

- Assisted with C programming course for freshmen

CERTIFICATATIONS & LANGUAGE

Big-Data Analysis Engineer   Dec 2021
                                                                 Korea Data Agency

TOEIC : 775 (LC : 360 | RC : 415)   March 2021
                                                                              YBM

ADSP (Advanced Data Analytics Semi-Professional)   Dec 2020
                                                                 Korea Data Agency

SKILLS

Programming Languages : Python, C++, C
Deep Learning Framework : Pytorch
etc : Docker, Latex