

"To Make Each Day Count"

Education

Kwangwoon University

Mar. 2017 - Feb . 2021 (Expected)

Seoul, S.Korea

SENIOR STUDENT IN INFORMATION CONVERGENCE, MAJOR IN DATA SCIENCE

Major GPA of 4.35 / 4.5, Total GPA of 4.32 / 4.5

Publications

DOMESTIC

2020 KCC2020, Jonghyeok Park, Soyoung Cho, Jonghyeok Lee, Hyuntae Lim, Yungyung Cheong. Detection of Illicit Drug Selling Tweets Using Phoneme Separation and Machine Learning Algorithm

KIISE

KCC2020, Jihwan Lee, Soyoung Cho, Jeongwon Kwak, Dongyoung Kim, Yeongseo Kim, Jaesung Park. 2020 Hyper-parameter Optimization for Neural Machine Translation on Korean-English

KIISE

Internships_

Intelligence Information Convergence Lab of ETRI

July. 2020 - Aug. 2020 (Expected)

SUMMER RESEARCH INTERN

Bundang, S.Korea

- Currently working on bearing fault diagnosis project Related Article
- · Analyzed raw data on different bearing machine environments
- · Constructed and transformed data through identifying features and selecting sampling strategy
- · Trained and evaluated model predicting machine fault using deep learning

Project Experience

Korean-English Neural Machine Translation Project

Jan. 2020 - June. 2020

Seoul S Korea

Seoul, S.Korea

CONTRIBUTOR

- · Capstone design project based on the transformer model of OpenNMT open-source framework
- Using a Korean-English parallel corpus opened in AI Hub which I participated in building the corpus, eventually helped to understand the data
- · Improved the performance of the model in the BLEU score by 33.5 with sampled test data through changing the methods of preprocessing, tokenization and tuning hyper-parameter(manual search)
- · Submitted short paper at KCC2020 as a co-author

Smishing Message Detection Project

Jan. 2020 - Feb. 2020

CONTRIBUTOR

· Joined the 'Financial SMS Phishing Message Classification' competition hosted by the KB Finance

- · Achieved 97% of accuracy but was found to be the type 2 error, classifying whole data as normal data due to the skewness in data
- Willing to study the solutions of imbalanced text data problems

Undergraduate Research, Data Mining Lab

June. 2019 - Feb. 2020

Undergraduate Researcher

Seoul, S.Korea

- · Researched Natural Language Processing (NLP) algorithms for information extraction and sentiment analysis in tour reviews
- · Built dataset through crawling Agoda websites' reviews and organizing the clauses modifying nouns

2019 International AI World Cup (Hosted by KAIST)

Sep. 2019 - Nov. 2019

TEAM LEADER, PRESENTER

Indiana, U.S.A

- Won the 1st prize(\$4000) in 'Al Commentator' part
- · Built a rule-based robot simulation soccer automatic commentary model with team members
- Defined the available situations in the robot simulation soccer as specific as possible, built, and tuned commentary scripts
- Part of the 'K-SW Purdue Univ. Capstone Program' organized by the IITP(Institute for Information and Communications Technology Promotion)

SOYOUNG CHO · CURRICULUM VITAE

TEAM LEADER, CONTRIBUTOR, PRESENTER

Seoul, S.Korea

- · Won the 2nd prize in 'Drug Safety Management Contest using Big-data' hosted by KIDS through an approach to improve illicit tweet detection
- · Applied an ensemble model methods with recombining separated Korean letters to improve classification performance
- Experienced the whole process of machine learning through building datasets, analyzing, preprocessing, and modeling
- Submitted short paper at KCC2020 as a co-author

Awards & Honors

AWARDS

2020	1st Place, People's Choice Award, 5G based ICT Convergence Idea Contest	KICS, SKT
2019	1st Place, Al World Cup 'Al Commentator' World Final	KAIST
2019	Selected Participant as School Representative, K-SW Purdue University Capstone program	IITP
2019	2nd Place, Drug Safety Management Contest Using Big Data	KIDS
2019	Dean's List , for Academic Excellence	Kwangwoon Univ.
2018	3rd Place , 19th English Essay Contest	Kwangwoon Univ.
2018	2nd Place, AI based English Translation National Contest	Kwangwoon Univ.
2018	Dean's List, for Academic Excellence	Kwangwoon Univ.
2017	Advance to the Finals, Air Traffic Big Data Idea Contest	KAC
2017	3rd Place , IoT Smart Software Competition	Kwangwoon Univ.
2017	1st Place, English Contest awarded by the President of Kwangwoon University	Kwangwoon Univ.

Honors

2020	Software Excellence Scholarships , awarded to students with excellence in software	Kwangwoon Univ.
2020	Honors Scholarships, awarded to qualified students with outstanding efforts	KRX Foundation
2019	Honors Scholarships, awarded to qualified students with outstanding efforts	Emons Furniture
2019	Software Excellence Scholarships, awarded to students with excellence in software	Kwangwoon Univ.
2018	Semester High Honors, awarded to students with high achievements throughout the semester	Kwangwoon Univ.
2018	Software Excellence Scholarships, awarded to students with excellence in software	Kwangwoon Univ.
2017	English Excellence Scholarships, awarded to students with excellence in English	Kwangwoon Univ.

Teaching

Object-Oriented Programming

Mar. 2020 - PRESENT

TEACHING ASSISTANT

Kwangwoon University, Seoul • Object-Oriented Programming in Department of Information Convergence

· Answers questions in person and online, marks assignments, and will proctor exam

D.Lab Code Academy Feb. 2020 - PRESENT

INSTRUCTOR • Taught elementary students and middle school students the basics of programming

· Covers python, scratch, and app-inventor Golden Bell School (Samsung Card Data Mining Education Program)

INSTRUCTOR, ASSISTANT • Taught middle school students the notion of big data and data mining

Software Winter School Jan. 2019 - Feb. 2020

TEACHING ASSISTANT Kwangwoon University, Seoul

- Short courses of Python Programming, C Programming in Software Convergence College
- Assisted in programming practice, answered questions in person, and proctored exams

Extracurricular Activity

Kwangwoon University Student Council Emergency Committee

PR TEAM LEADER

• Leading PR Team to promote and advertise student council's businesses and events

Jan. 2020 - PRESENT

Pyeongchon, Gyeonggi-do

Feb. 2019 - Aug. 2019

Seoul, S.Korea

Kwangwoon University, Seoul

Software Convergence College Student Council

Jan. 2018 - Dec. 2019 Kwangwoon University, Seoul

PR TEAM MEMBER, LEADER

- Planned Software Convergence College student council's tasks and volunteered off-site
- · Led PR Team to promote and advertise student council's businesses and events on-line and off-line

CoVong (Coding Volunteer Group of Kwangwoon University)

Mar. 2018 - Aug. 2019 Kwangwoon University, Seoul

MEMBER

- Joined the university student education donation program in 2018 & 2019, hosted by the Ministry of Education
- Taught middle school students app-inventor programming as part of KT education program

AI Hub Korean-English Parallel Corpus Construct Project

Mar. 2018 - Aug. 2019

EVERTRAN, Seoul

CONTRIBUTOR (TRANSLATOR)

· Participated Korean-English Machine Translation Post Editing Parallel Corpus project managed by ETRI

• Currently uploaded at AI Hub Website

Skills

Programming C, Java, Python, R, MySQL, Android

Deep Learning Pytorch, Keras

Data Analysis Numpy, Pandas, Matplotlib, seaborn, gensis, scikit-learn, Spark

Language Proficiency

Fluent in English, Native in Korean

• 2020.06 - TEPS 455

• 2020.04 - OPIC AL

• 2019.08 - TOEIC 970