



Soyoung Cho

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"To Make Each Day Count"

Education

Kwangwoon University

SENIOR STUDENT IN INFORMATION CONVERGENCE, MAJOR IN DATA SCIENCE

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

Mar. 2017 - Feb. 2021 (Expected)

Seoul, S.Korea

Publications

DOMESTIC

2020 **KCC2020**, Soyoung Cho, Jonghyeok Park, Jonghyeok Lee, Hyuntae Lim, Yungyung Cheong.

Detection of Illicit Drug Selling Tweets Using Phoneme Separation and Machine Learning Algorithm

KIISE

2020 **KCC2020**, Soyoung Cho, Jihwan Lee, Jeongwon Kwak, Dongyoung Kim, Yeongseo Kim, Jaesung Park.

Hyper-parameter Optimization for Neural Machine Translation on Korean-English

KIISE

Internships

Intelligence Information Convergence Lab of ETRI

SUMMER RESEARCH INTERN

- 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

July. 2020 - Aug. 2020 (Expected)

Bundang, S.Korea

Undergraduate Research, Data Mining Lab

UNDERGRADUATE RESEARCHER

- 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

June. 2019 - Feb. 2020

Seoul, S.Korea

Project Experience

Korean-English Neural Machine Translation Project

CONTRIBUTOR

- Capstone design project based on the transformer model of OpenNMT open-source framework
- Used 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

Jan. 2020 - June. 2020

Seoul, S.Korea

2019 International AI World Cup (Hosted by KAIST)

TEAM LEADER, PRESENTER

- Won the 1st prize(\$4000) in 'AI Commentator' part - [Related Article](#)
- 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' selected as school representative, organized by the IITP(Institute for Information and Communications Technology Promotion)

Sep. 2019 - Nov. 2019

Indiana, U.S.A

Drug Selling Illicit Tweets Classification Project

TEAM LEADER, CONTRIBUTOR, PRESENTER

- 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

Mar. 2019 - Aug. 2019

Seoul, S.Korea

Awards & Honors

AWARDS

2020	1st Place, People's Choice Award , 5G based ICT Convergence Idea Contest - Related Article	KICS, SKT
2019	1st Place , AI World Cup 'AI 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 - Related Article	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.

Extracurricular Activity

Kwangwoon University Student Council

Jan. 2018 - June. 2020

PR TEAM LEADER

Kwangwoon University, Seoul

- Planned Software Convergence College student council's tasks and volunteered off-site (2018-2019)
- Led Software Convergence College PR Team to promote and advertise student council's businesses and events on-line and off-line (2018-2019)
- Led Student Council Emergency Committee PR Team to promote and advertise student council's businesses and events (2020)

Teaching Experiences

Jan. 2019 - June. 2020

TEACHING ASSISTANT AND INSTRUCTOR

Seoul

- Teaching Assistant in Object-Oriented Programming course in Department of Information Convergence (Mar. 2020 - June. 2020)
- Taught students as an instructor in D.Lab Code Academy, covered scratch and app-inventor programming (Aug. 2019, Feb. 2020)
- Assisted teaching middle school students the notion of big data in Samsung Card Data Mining Education Program (Feb. 2019 - Aug. 2019)
- Tutored Software Convergence College students in Python Programming, C Programming courses (Jan. 2019 - Feb. 2019)

Deep Learning Principle Study Group

Jan. 2020 - Feb. 2020

GROUP MEMBER

Seoul

- Joined a study group studying basics of deep learning with mathematics
- Implemented nodes from scratch using numpy and pandas, read papers

AI Hub Korean-English Parallel Corpus Construct Project

Mar. 2018 - Aug. 2019

CONTRIBUTOR (TRANSLATOR)

EVERTRAN, Seoul

- 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