



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 4.3 / 4.5, Total GPA of 4.29 / 4.5 (97.6 / 100)

Mar. 2017 - Feb. 2021 (Expected)

Seoul, S.Korea

Publications

DOMESTIC

- 2020 **Soyoung Cho**, Jonghyeok Park, Jonghyeok Lee, Hyuntae Lim, Yungyung Cheong.
Detection of Illicit Drug Selling Tweets Using Phoneme Separation and Machine Learning Algorithm
- 2020 **Soyoung Cho**, Jihwan Lee, Jeongwon Kwak, Dongyoung Kim, Yeongseo Kim, Jaesung Park.
Hyper-parameter Optimization for Neural Machine Translation on Korean-English

KCC2020

KCC2020

Project Experience

Korean-English Neural Machine Translation Project

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

Jan. 2020 - Present

Seoul, S.Korea

Smishing Message Detection Project

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

Jan. 2020 - Feb. 2020

Seoul, 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

2019 International AI World Cup (Hosted by KAIST)

TEAM LEADER, PRESENTER

- Won the 1st prize(\$4000) in 'AI 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)

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	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	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	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

TEACHING ASSISTANT

- Object-Oriented Programming in Department of Information Convergence
- Answers questions in person and online, marks assignments, and will proctor exam

Mar. 2020 - PRESENT

Kwangwoon University, Seoul

D.Lab Code Academy

INSTRUCTOR

- Taught elementary students and middle school students the basics of programming
- Covers python, scratch, and app-inventor

Feb. 2020 - PRESENT

Pyeongchon, Gyeonggi-do

Golden Bell School (Samsung Card Data Mining Education Program)

INSTRUCTOR, ASSISTANT

- Taught middle school students the notion of big data and data mining

Feb. 2019 - Aug. 2019

Seoul, S.Korea

Software Winter School

TEACHING ASSISTANT

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

Jan. 2019 - Feb. 2020

Kwangwoon University, Seoul

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

Kwangwoon University, Seoul

Software Convergence College Student Council

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

Jan. 2018 - Dec. 2019

Kwangwoon University, Seoul

CoVong (Coding Volunteer Group of Kwangwoon University)

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

Mar. 2018 - Aug. 2019

Kwangwoon University, Seoul

AI Hub Korean-English Parallel Corpus Construct Project

CONTRIBUTOR (TRANSLATOR)

- Participated Korean-English Machine Translation Post Editing Parallel Corpus project managed by ETRI
- Currently uploaded at AI Hub Website

Mar. 2018 - Aug. 2019

EVERTRAN, Seoul

Skills

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

Deep Learning Pytorch

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

Language Proficiency

Fluent in English, Native in Korean

- 2020.04 – OPIC AL
- 2019.08 – TOEIC 970