

KWAK, JEONGWON

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focus on now

EDUCATION

Kwangwoon University

Mar 2017 - Feb 2021

Bachelor of Science in Information Convergence, Major in Data Science

- Major GPA : 4.35/4.5 Cumulative GPA : 4.33/4.5 (Cumulative Credit : 150/133)

WORK EXPERIENCE

Assistant Researcher

Development of general natural language processing technology based on deep learning for information extraction and sentiment analysis

Jun 2019 - Feb 2020

NRF

- Morphological analysis and sentiment analysis for feature extraction

SW-centered University (realized NLP & Data Mining)

Apr 2019- Dec 2019

- Built dataset for tour reviews through crawling, preprocessed text data for feature extraction

IITP

Undergraduate Researcher

Aug 2019 - Dec 2019

Development of automatic trend of reviews detection algorithm

- Researched on the automatic detection of review trends based on sentiment analysis, n-gram

PUBLICATIONS

Journal Papers

- Jeong, H., **Kwak, J.**, Kim, J., Jang, J, Lee, H. "A Study on Methods of Automatic Extraction of Korean-Language Modification Relations for Sentiment Analysis" (ICAIIIC 2020)

Feb 2020

IEEE

- Lee, J., **Kwak, J.**, Kim, D., Cho, S., Park, J. "Hyper-parameter Optimization for Neural Machine Translation on Korean-English" (KCC 2020)

Jul 2020

KIISE

Patent Applications

- **Kwak, J.**, Kim, J., Cho, J., "System for Automatically Generating Code Using Voice Recognition and Method for Automatically Generating Code Using the Same"

Oct 2020

- **Kwak, J.**, Jeong, H., Kim, J., "A Method of Sentimental Feature and Vocabulary Extraction"

Dec 2019

PROJECT EXPERIENCE

Korean-English Neural Machine Translation

Feb 2020 – Jun 2020

Contributor, Presenter — Python

- **Capstone Design Project**, NMT model optimized for Korean-to-English translation using transformer model based on OpenNMT(open-source framework)
- Used Korean-English translation corpus collected from AI-Hub, Tatoeba, adopted tokenization method optimized for each language, and performed hyper-parameter tuning experiments
- Final model performance(BLEU) : 33.55

Coding Education Program Using Speech Recognition and Deep Learning

Mar 2020 – Jun 2020

Team Leader, Contributor, Presenter — Python

- **Self-Directed Project**, Developed an artificial intelligence translation system that converts Korean speech into codes
- Combined speech recognition model with machine translation model

Smart Rowing System Application Using Management Records and Database

Jun 2019 – Aug 2019

Contributor, Presenter — Java(Android), SQL

- **Industry-Linked Capstone Design Project**, Solved the challenges provided by the company
- Created ERD and developed the application to measure and store match records
- Designed to be stored in the database using tablets

AWARDS SCHOLARSHIPS

Awards

2020.11	President's Award , Translation System for Korean-English Conversation	Kwangwoon Univ.
2020.11	Popularity Award , Translation System for Korean-English Conversation	Kwangwoon Univ.
2020.06	Encouragement Award , Self-Directed Project Performance Presentation	Kwangwoon Univ.
2020.02	Encouragement Award , 5G-based ICT Convergence Service Idea Contest	KICS
2019.09	Excellence Award , SW Startup Idea Competition	Kwangwoon Univ.
2019.08	Excellence Award , Capstone Design(Industry-Linked)	Kwangwoon Univ.
2019.06	Excellence Award , The 7th Startup Idea Contest	Jeonbuk National Univ.
2019.04	Dean's List , Academic Achievement Award (2018-2)	Kwangwoon Univ.
2018.09	Dean's List , Academic Achievement Award (2018-1)	Kwangwoon Univ.
2017.09	Dean's List , Academic Achievement Award (2017-1)	Kwangwoon Univ.

Scholarships

2020-2	National Graduate Science & Technology Scholarship (Full-tuition)	KOSAF
2020-1	National Graduate Science & Technology Scholarship (Full-tuition)	KOSAF
2019-2	National Graduate Science & Technology Scholarship (Full-tuition)	KOSAF
2019-2	Software Excellence Scholarship	Kwangwoon Univ.
2019-1	2nd Academic Scholarship (Half-tuition)	Kwangwoon Univ.
2019-1	Faculty Association Scholarship	Kwangwoon Univ.
2018-2	Software Excellence (A+) Scholarship	Kwangwoon Univ.
2018-2	2nd Academic Scholarship (Half-tuition)	Kwangwoon Univ.
2018-1	3rd Academic Scholarship	Kwangwoon Univ.
2017-2	1st Academic Scholarship (Full-tuition)	Kwangwoon Univ.

EXTRA-CURRICULAR

Statistics Talent Donation Volunteer

Apr 2019 – Nov 2019

2019 University Student Statistics Education Talent Donation Group 5th

Statistics Korea, KOSTAT

- Taught statistics to elementary, middle and high schools students

Vice-President of College

Jan 2018 – Dec 2018

Vice-President of Kwangwoon University's 2nd College of Software Convergence

Kwangwoon Univ.

- Planned various college events including software related events

Machine/Deep Learning Group Study

Nov 2018 – Feb 2019

Machine Learning and Deep Learning based on Tensorflow Studies during the Vacation

Kwangwoon Univ.

- Studied the theory and practice of machine learning and deep learning and reviewed papers

TECHNICAL SKILLS

Languages	Python, C, JAVA, R, SQL
Libraries	Pytorch, Tensorflow, Numpy, Pandas, Matplotlib