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 Comulative GPA : 4.33/4.5 (Comulative Credit : 150/133)

WORK EXPERIENCE

Assistant Researcher
Development of general natural language processing technology based on deep learning   *Jun 2019 - Feb 2020*
for information extraction and sentiment analysis   NRF

· Morphological analysis and sentiment analysis for feature extraction
SW-centered University (realted 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*   *Feb 2020*
of Korean-Language Modification Relations for Sentiment Analysis" (ICAIIC 2020)   IEEE
· Lee, J., **Kwak, J.**, Kim, D., Cho, S., Park, J. *"Hyper-parameter Optimization for Neural Machine*   *Jul 2020*
Translation on Korean-English" (KCC 2020)   KIISE

Patent Applications

· **Kwak, J.**, Kim, J., Cho, J., *"System for Automatically Generating Code Using Voice Recognition*   *Oct 2020*
and Method for Automatically Generating Code Using the Same"
· **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 colledted 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