KWAK, JEONGWON

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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 Credits : 150/133)

PROJECT EXPERIENCE

End-to-End Translation System for Korean-English Conversation   *Feb 2020 – Jun 2020*
Developer, Presenter
· ***Capstone Design Project***, Implemented an artificial intelligence interpretation system
  with a natural conversation
· To improve the performance of each speech recognition and text translation
· The ASR and NMT predictions were close to the Ground Truth
· Won the Popularity Award and the First Place(*1st*).

Automatic Code Generation Program through Speech Recognition   *Mar 2020 – Jun 2020*
Team Leader, Developer, Presenter
· ***Self-Directed Project***, Developed an artificial intelligence translation system that converts
  Korean speech into python codes for people with disabilities
· Implemented the education program that automatically generates code using speech recognition

Smart System Application Using Management Records and Database   *Jun 2019 – Aug 2019*
Developer, Presenter
· ***Industry-Linked Capstone Design Project***, Solved the challenges provided by the company
· Created ERD and developed an application for recording measurements in real time
· Designed to be stored in the database using tablets

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 (related NLP & Data Mining)   *Apr 2019 – Dec 2019*
· Built dataset for 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 to develop an algorithm related to detecting trends

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*

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.
2020.10	***Dean's List***, Academic Excellence Award	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 Excellence Award	Kwangwoon Univ.
2018.09	***Dean's List***, Academic Excellence Award	Kwangwoon Univ.
2017.09	***Dean's List***, Academic Excellence Award	Kwangwoon Univ.

Scholarships

2020-02	National Graduate Science & Technology Scholarship (Full tuition)	KOSAF
2020-01	National Graduate Science & Technology Scholarship (Full tuition)	KOSAF
2019-02	National Graduate Science & Technology Scholarship (Full tuition)	KOSAF
2019-02	Software Excellence Scholarship	Kwangwoon Univ.
2019-01	2nd Academic Scholarship (Half tuition)	Kwangwoon Univ.
2019-01	Faculty Association Scholarship	Kwangwoon Univ.
2018-02	Software Excellence (A+) Scholarship	Kwangwoon Univ.
2018-02	2nd Academic Scholarship (Half tuition)	Kwangwoon Univ.
2018-01	3rd Academic Scholarship (Quarterly tuition)	Kwangwoon Univ.
2017-02	1st Academic Scholarship (Full tuition)	Kwangwoon Univ.

EXTRA-CURRICULAR

Trained Problem-Solving AI Technology Development (KAIST) — *25th Jan 2021 – 29th Jan 2021*
2021 NLP(with BERT) and Related Techniques Practice — Smart Energy AI Research Center
· Learned the contextual representations and downstream tasks
  and the latest models (Big Bird, MASS, PALM, etc.)

Statistics Talent Donation Volunteer — *Apr 2019 – Nov 2019*
2019 University Student Statistics Education Talent Donation 5th Group — Statistics Korea, KOSTAT
· Taught statistics to elementary, middle and high school 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
· Explored the principles of Mathematical structure for deep learning

TECHNICAL SKILLS

Languages	Python, C, JAVA, R, MySQL
Libraries	Pytorch, Tensorflow, Numpy, Pandas, Matplotlib
Tools	Neo4j, Spark, Tableau