Joel Jang

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EDUCATION

Korea University — Seoul, Korea
Bachelor of Computer Science and Engineering — March 2017 – Present (*February 2021*)
GPA: 3.75/4.5 (91.4/100) / Major GPA: 4.03/4.5

RESEARCH/WORK EXPERIENCE

NAVER CORP. | Media Tech Group — Seongnam-si, Korea
Summer Intern — *July 2020 – September 2020*
Improving current hate speech comment detection model (AI Clean Bot 2.0)
Developed novel incremental learning method to solve the data imbalance problem (*paper under review*)
Implementing SOTA research on multitask learning, semi-supervised learning and online learning on real application

Natural Language Processing & Artificial Intelligence Lab | Korea University — Seoul, Korea
Undergraduate Research Intern — *March 2020 – July 2020*
Basic NLP Research including Machine Reading Comprehension, Open-Domain Question and Answering, Natural Questions, and Language Models. Placed 4th place in NLP Competition.

Korea Institute of Science and Technology European Research Centre — Saarbrucken, Germany
Research Intern / Smart Convergence Group — *August 2019 – January 2020*
Implemented deep learning models for motor fault diagnosis and prognosis
Developed early fault detection model using convolution neural networks and data wrangling method

Blockchain Security Research Center | Korea University — Seoul, Korea
Undergraduate Research Intern — *March 2019 – June 2019*
Basic research foundations of blockchain technology and potential security vulnerabilities

Artificial Intelligence Research Lab | Korea University — Seoul, Korea
Winter Research Intern — *December 2018 – February 2019*
Implemented multiple-GPU parallel model training algorithm (Features Replay Algorithm) using CUDA programming

PUBLICATIONS

Joel Jang, Yoonjeon Kim, Kyoungho Choi, Sungho Suh, Sequential Targeting: An Incremental Learning Approach for Data Imbalance in Text Classification. *Submitted to Expert Systems with Applications. (under review)*
Yong Oh Lee, **Joel Jang**, Sungho Suh, Diagnosis of bearing wear state and prediction of remaining useful lifetime using nested scatter plot. PHM KOREA 2020. *(short paper)*
Sungho Suh, **Joel Jang**, Seungjae Won, Mayank S. Jha, Yong Oh Lee (2020), Supervised Health Stage Prediction Using Convolution Neural Networks for Bearing Wear. Sensors, 20(20), 5846.

SCHOLARSHIPS AND CERTIFICATES

Best Innovation Award, Intel AI Drone Hackathon, 2018
Future Global Leader Scholarships, Korea University, 2019
Korea Student Aid Foundation, Samsung Scholarship, 2019
Promising Start-up Team Award, K-Startup Grand Challenge, 2019
3rd place, HAAFOR Challenge 2019
4th place, AI NLP Challenge Enliple Cup

GRE: 326 (Verbal, 157/170, 76th Percentile) | Quant, 169/170, 95th Percentile | AW, 5.0/6.0, 92nd Percentile)

TOEFL: 119/120 (Reading, 30 | Listening, 30 | Speaking, 29 | Writing, 30)
SAT: 1530/1600 (Reading and Writing, 730 | Math, 800)

TECHNICAL STRENGTHS

Programming Languages	Python, Java, Html, CSS, Javascript, React, Linux
Programming Libraries	Tensorflow, Pytorch, Pandas, Sklearn, CUDA, Spark, Hadoop

LANGUAGES

Bilingual in English(*native, 12 years living in US, 2004-2016*) and Korean(*native)*
Conversational in Chinese

REFERENCES

Dr. Yong Oh Lee
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Smart Convergence Group, Korea Institute of Science and Technology
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