

Junseong Kim

MACHINE LEARNING RESEARCH ENGINEER & SCIENTIST

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Education

Kookmin University

Seoul, Republic of Korea

B.S. IN COMPUTER SCIENCE AND ENGINEERING

Mar. 2017 - PRESENT

- Sophomore, GPA 4.0/4.5(3rd semester)
- Take a leave of absence due to military service until October 2021.

Korea Digital Media Highschool

Ansan, Republic of Korea

GRATUATED, SPECIALIZED IN HACKING AND DEFENCE

Mar. 2014 - 2017

Experience

Scatter Lab, Pingpong team

Seoul, S.Korea

MACHINE LEARNING RESEARCH SCIENTIST

Oct. 2018 - Present

- Real-time large-scale(+1B) response retrieval model with BERT based BI-Encoder architecture for open-domain dialog system
- Universal goal-oriented utterance filter using utterance examples of limited domains for open-domain chatbot builder
- Enhancing response selection model through the multi-task learning with multiple negative attributes
- Named Entity Recognition (NER) and Topic keyword extraction model which take the multi-turn dialog context
- Semantic Text Similarity (STS) model for query-hand crafted scenario matching at open-domain chatbot builder
- Language Model (like BERT, ELMO etc) experiments and adaptation methods for open-domain dialog system
- Developed DL model serving pipeline for chatbot builder; experienced at flask, docker, CI, micro-service.
- Developed Korean word spacing correction model package; Github: (pingpong-ai/chatspace)
- Managed enterprise-level tech blog; blog.pingpong.us
- This job also fulfills my mandatory military service in Korea, ending in October 2021.

Naver Clova AI

Sungnam, S.Korea

RESEARCH INTERNSHIP

July. 2018 - Sep. 2018

- Proof-of-Concept at task-oriented dialog system for restaurant reservation; like google-duplex
- Researched substitute approaches of memory network using Transformer architecture in task-oriented dialog system (DSTC dataset)
- Character convolution network based Korean word representation; Github: naver/kor2vec

Atlas Guide

Seoul, S.Korea

MACHINE LEARNING ENGINEER

Jun. 2017 - Jun. 2018

- Task-Oriented chatbot using industrial customer service and customer communication history
- Seq2Seq based domain specific fashion online shopping mall translation; higher than google-translator BLEU score
- Intent classification and NER(Name Entity Recognition) model for flight reservation task
- Video(youtube) subtitle and audio timestamp syncing tool for ASR(Automated Speech Recognition)
- Developed automated training pipeline for ASR system with multiple train server nodes and deploying to AWS
- ML model serving pipeline which includes a flask, dockerization, ci-test pipeline, micro-service for product service.

Extracurricular Activity

Postech Creative Entrepreneur Education Institution

Pohang, S.Korea

GRATUATED, 2 YEARS CURRICULUM

Jan. 2014 - Jan 2016

- Educated semi MBA course and technical patent publishing skill
- Got 1st awards 3 times on startup simulating projects among 4 projects
- 2014, 2018 Global HR Forum, Representative of Korea Future Creative Young Entrepreneurs Organization

Honors & Awards

INTERNATIONAL

- 2017 **Finalist, Representative of Korea**, Intel ISEF 2017, International Science Engineering Fair, Computer Science *CA, U.S.A*
- 2014 **Finalist, Representative of Korea**, Intel ISEF 2014, International Science Engineering Fair, Computer Science *CA, U.S.A*

DOMESTIC

- 2016 **Grand Award**, 2016 KSEF: Korea Science Engineering Fair, Computer Science *Seoul, S.Korea*
- 2014 **Grand Award**, 2014 ISEF-K: Korea Science Engineering Fair, Computer Science *Seoul, S.Korea*
- 2013 **2nd Award**, 2013 KOI: Korea National Information Olympiad, SW Category *Seoul, S.Korea*
- 2016 **3rd Award**, 2016 KOI: Korea National Korea Information Olympiad, SW Category *Seoul, S.Korea*

Presentation

PyCon Korea 2019

Seoul, S.Korea

BUILDING HUMAN-LIKE ARTIFICIAL INTELLIGENCE CHAT BOT WITH 10B HUMAN2HUMAN CONVERSATION DATA

2019

- Youtube Video Link

Naver D2 Tech Talk

Seoul, S.Korea

BUILDING CHATBOT WHO CAN DO THE HUMAN-LEVEL CONVERSATION

2019

- Youtube Video Link

Google I/O Extended Seoul

Seoul, S.Korea

ALL YOU NEED IS GOOGLE'S AI TECH

2019

- Speaker Deck Link

Developer Circle Seoul, 2019 F8 Viewing Meetup

Seoul, S.Korea

FACEBOOK F8 REVIEW AT ML PERSPECTIVE

2019

- Speaker Deck Link