Soohwan KIM

Profile

Current co-founder and AI Research Engineer of TUNiB Inc. My research interests include technologies for human-machine interaction, such as automatic speech recognition, speech synthesis, and natural language processing. I want to be helpful to others through open source.

Education

Kwangwoon University
March 2014 — February 2021

- Major in Electronic & Communication Engineering
- Minor in Data Science.
- Major GPA: 3.90 / 4.5, Total GPA: 3.68 / 4.5

Employment History

TUNiB Inc.
March 2021 — Present

- Co-founder & AI Research Engineer
- Startup based on natural language processing technology.
- Website: www.tunib.ai

Kakao Brain Corp.
November 2020 — February 2021

- AI Research Engineer (Speech & NLP TEAM)
- Developed a natural language processing library named pororo
- Website: www.kakaobrain.com

Internships

Kakao Brain Corp.
August 2020 — November 2020

- AI Research Internship (Speech & NLP TEAM)
- Developed speech recognition & speech synthesis technologies.

Spoken Language Lab (of Sogang Univ.)
April 2020 — August 2020

- Research Internship
- Studies speech recognition task based on deep learning.
- Website: http://speech.sogang.ac.kr/

Publication

Open-Source Toolkit for End-to-End Korean Speech Recognition
Soohwan Kim, Seyoung Bae, Cheolhwang Won (ELSEVIER, SIMPAC)

E2E Speech Recognition Models in English, Chinese, and Korean
Soohwan Kim (Bachelor's Graduation Thesis)

Details

1206-5 Bojeong-dong,
Giheung-gu Yongin-si,
Gyeonggi-do
Seoul, 16898
South Korea
+82-10-4564-4668
kaki.ai@tunib.ai

Date / Place of birth

1995.10.11
Cheonan-si

Links

GitHub
Tech Blog (GitHub)
Tech Blog (Naver)
Linkedin
Facebook

Skills

Python

PyTorch

Fairseq

Numpy

Git

Java

C

Shell Script

Pandas

Faiss

Hydra

SQL

Android

HTML

Assembly

⬛ Project Experience

PORORO: Platform Of neuRal mOdels for natuRal language prOcessing, Kakao Brain
November 2020 — February 2021

- Performs natural language processing and speech-related tasks.
- Easy to solve various subtasks in the nlp & speech field.
- GitHub: https://github.com/kakaobrain/pororo

Multilingual Text-To-Speech , Kakao Brain
October 2020 — February 2021

- Supports 11 languages.
- Supports voice style transfer, and code-switching functions.
- Demo page: https://pororo-tts.github.io/

English, Chinese, and Korean End-to-End Automatic Speech Recognition, Kakao Brain
August 2020 — October 2020

- Develop and compare models (LAS, Transformer, Wav2vec 2.0)
- Performance and speed comparison by output unit.

KoSpeech: Open-Source Toolkit for End-to-End Korean Speech Recognition, Spoken Language Lab
January 2020 — Present

- Extensible end-to-end Korean speech recognition toolkit.
- Most popular Korean speech recognition project in GitHub.
- GitHub: https://github.com/sooftware/KoSpeech

⅄ Extra-curricular activities

Speech Paper Reading
December 2020 — Present

- Weekly meeting where people who work in the field of Speech.
- Read the paper and share each opinions.
- https://github.com/speech-paper-reading/speech-paper-reading

NLP Paper Reading
September 2020 — February 2021

- Kakao Brain NLP Team's weekly paper reading study.
- Read the paper and share each opinions.
- https://github.com/kakaobrain/nlp-paper-reading

⬛ Teaching Experience

SAMSUNG AI Expert Course
July 2020 — August 2020

- Conduct teaching assistant role in the speech recognition session.

Object-Oriented Programming Practice Lecture
March 2020 — June 2020

- Covered basic java programming,
- Ran laboratories and had office hours every week.
- Answered students questions in person and marked assignments.