

SANGCHUN HA

Undergraduate Student

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Date of birth 1997.11.07 Place of birth Gangdong-gu, Seoul

LINKS

[GitHub](#), [Linked In](#)

PROFILE

I am deeply interested in the field of signal processing. Especially, I am interested in speech signal processing, so I am studying and developing a speech recognition model. Also, my research interests include speech synthesis and natural language processing. I enjoy software development and sometimes like to share my code. I want to be helpful to others through open source.

You can check my github page to see what I am currently up to.

EDUCATION

❖ **Kwangwoon University** Mar 2016 — Feb 2022
Bachelor of Engineering Seoul, South Korea

Major in Electronic & Communication Engineering, Minor in Data Science.

Major GPA : 4.27 / 4.5, **Total GPA** : 4.11 / 4.5

Courses : Capstone Design, Operating systems, Software Design, Computer Architecture, Data Structure & Algorithm, Object-Oriented Programming, Computer Network, Data Science, C Programming, Data Communication, Digital Signal Processing, Signal and System, Digital Engineering, Digital Communication, Communication Theory, Network Analysis, Linear Algebra, Engineering Mathematics I-II, Physical Electronics, Circuit Theory, Semiconductor Devices, Electronic Circuit 1, Basic Electronic circuit Lab I-II, Electronic Circuit LAB I-II

PROJECT EXPERIENCE

❖ **Automatic Speech Recognition Models** Dec 2020 — Feb 2021

Implemented End-to-End Speech Recognition models with PyTorch

Several speech recognition models: Listen-Attend-Spell, Deepspeech2, Speech-Transformer, RNN-Transducer, Transformer-Transducer

Developed three different attention mechanisms: Scaled dot-product attention, Location aware attention, Multi-head attention

❖ **Household Poverty Level Data Analysis** Sep 2020 — Dec 2020

Term project for course Data Science of 2020-Fall semester

Implemented a data science model that can predict the household poverty level using the household dataset

Experienced the whole process of machine learning through problem definition, preprocessing, analyzing, transforming and modeling

❖ **Cloud File Transfer Service** Jul 2020

Using Unix Network programming with C language

Implemented to upload and download files to personal cloud through login

EXTRA-CURRICULAR ACTIVITIES

❖ **Google Machine Learning Bootcamp** Oct 2020 — Feb 2021

Google Korea

Completed Deep Learning Specialization lecture which is taught by Prof. Andrew Ng

❖ **Data Construction for Speech Recognition and Speech Synthesis** Dec 2020

Kakao Brain

Selected for a part-time job and worked it

Collected famous YouTube lectures through web crawling with python

Cut the voice to 5 seconds with Audacity and preprocessing it

❖ **Network Programming Study Group** Jun 2020 — Aug 2020

Kwangwoon Univ.

Participated in a study group hosted by the Computer Communication Laboratory of Kwangwoon University

Study Network Programming, Data Communication and Computer Network

COURSES

❖ **TensorFlow Certificate Program** Dec 2020 — Dec 2023

TensorFlow

LANGUAGE PROFICIENCY

❖ **OPIC IM** Aug 2020

SKILLS

Python *Expert* C *Experienced*

PyTorch *Expert* SQL *Skillful*

TensorFlow *Experienced* Matlab *Skillful*

Java *Experienced*

HOBBIES

Coding

Playing Soccer

Watching Soccer

Work Out