SANGCHUN HA

Undergraduate Student

19, Misagangbyeondong-ro, Hanam-si, Gyeonggi-do, South Korea

+82-10-4725-9896 **patrick.ai@tunib.ai**

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

LINKS

GitHub, Linked In

PROFILE

My name is Sangchun Ha, and I am currently working as an intern at TUNiB.

Specially, I am interested in automatic speech recognition and natural language processing. Also, I think we will soon be able to communicate with artificial intelligence. If you are interested in me, feel free to contact me.

EMPLOYMENT HISTORY

TUNiB, Internship ..... Aug 2021 — Present

Gangnam, Seoul

Development Korean-English Bilingual Electra Models. [link]

Experienced in data collection and data preprocessing.

Check more details about TUNiB at [link].

NeuroAI Lab, Internship ..... Mar 2021 — Aug 2021

Kwangwoon Univ.

Dept. of Biomedical Signal Processing & Human-Machine Interaction.

Studied end-to-end speech recognition technologies.

Check more details about NeuroAI Lab at [link].

EDUCATION

Kwangwoon University ..... Mar 2016 — Present

Bachelor of Engineering

Seoul, South Korea

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

Major GPA : 4.28 / 4.5, **Total GPA** : 4.12 / 4.5

Courses : AI & Speech Signal Processing, Data Mining, Text & Opinion Mining, Database, Capstone Design l-ll, 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 l-ll, Physical Electronics, Circuit Theory, Semiconductor Devices, Electronic Circuit 1, Basic Electronic circuit Lab l-ll, Electronic Circuit LAB l-ll

PROJECT EXPERIENCE

TUNiB Electra ..... Aug 2021 — Sep 2021

Released the pre-trained language model, TUNiB Electra. [link]

Experienced Electra model pre-training using TPU and fine tuning.

Experienced in data collection and data preprocessing.

OpenSpeech — May 2021 — Jul 2021

Implemented a framework to easily make a speech recognizer in various languages. [link]

Supports more than 20 speech recognition models including Transformer, Conformer, ContextNet, and Listen Attend Spell.

Automatic Speech Recognition Models — Dec 2020 — Feb 2021

Implemented End-to-End Speech Recognition models with PyTorch. [link]

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

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

Cloud File Transfer Service — Jul 2020

Using Unix Network programming with C language. [link]

Implemented to upload and download files to personal cloud through login.

EXTRA-CURRICULAR ACTIVITIES

CLOVA AI RUSH 2021 — Apr 2021 — Jul 2021

Naver

4th Ranked, Named Entity Recognition in Japanese order history. [link]
4th Ranked, Extracting user embedding using large-scale shopping data.

Google Machine Learning Bootcamp — Oct 2020 — Feb 2021

Google Korea

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

Studying various deep learning models and techniques.

Obtaining the TensorFlow Developer Certificate. [link]

Paper Reading — Dec 2020 — Feb 2021

Composed of papers related to speech recognition and natural language processing. [link]

SKILLS

Python	***Expert***	Git	***Skillful***
PyTorch	***Expert***	Matlab	***Skillful***
Java	***Experienced***	SQL	***Skillful***
C	***Experienced***	R	***Skillful***

LANGUAGE PROFICIENCY

OPIC IM — Aug 2020