

TAEWON YOO

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EDUCATION

Kyung Hee University

Bachelor of Software Convergence, Data Science Track

Yongin, Republic of Korea

Mar. 2017 -

EXPERIENCE

Research Assistant, University of Seoul

Human-Centered Artificial Intelligence Lab (HCAIL)

Seoul, Republic of Korea

Jun. 2020 - Present

- Developed and evaluated a mathematical model that classify deep learning lecture videos on YouTube according to its difficulties
- Supervisor: Prof. Hyunggu Jung

Intern, KIST Europe Forschungsgesellschaft mbH

Smart Convergence Group

Saarbrücken, Germany

Aug. 2019 - Jan. 2020

- Developed and evaluated an adversarial generative models to enhance classification accuracy in data imbalance situation

PUBLICATIONS

INTERNATIONAL CONFERENCE PAPERS (EXTENDED ABSTRACT)

- [ia.2] **T. Yoo**, H. Jeong, D. Lee, H. Jung. “LectYS: A System for Summarizing Lecture Videos on YouTube”. *To appear In Proceedings of the 26th International Conference on Intelligent User Interfaces (IUI)*, Virtual, April 2021.
- [ia.1] **T. Yoo**, H. Jung. “Category Classification of Educational Videos on YouTube through Machine Learning Approaches using Video Titles”. *In Proceedings of the 2019 US-Korea Conference on Science, Technology and Entrepreneurship (UKC)*, Chicago, IL, USA, August 2019.

DOMESTIC CONFERENCE PAPERS

- [d.2] **T. Yoo**, H. Jung. “Category Classification of Educational Videos on YouTube through Machine Learning Approaches”. *In Proceedings of Korea Computer Congress (KCC) 2019*, Jeju, Korea, June 2019.
- [d.1] **T. Yoo**, H. Jung. “Needs Analysis Based on Vlogging Career”. *In Proceedings of the HCI Korea 2019 Conference*, Jeju, Korea, February 2019.

EXTRACURRICULAR ACTIVITIES

Student Volunteer, Institute of Electrical and Electronics Engineers

The IEEE Student Volunteer Program

Aug. 2020 -

Teaching Assistant, Kyung Hee University

SWCON104 Web and Python Programming

Spring 2019, 2020

- Assisted on answering Python programming questions in and out of the class

Course Assistant, Kyung Hee University

GEE1952 Major Exploring Program

Fall 2018

- Marked attendance and assignments, and managed schedule with invited speakers

Student Mentor, Kyung Hee University

GEE1920 Kyung Hee Freshmen Seminar

Spring 2018, 2019

- Mentored 22 freshmen students, marked attendance and graded assignments

Vice President, Kyung Hee University

Student Government Association, Department of Software Convergence

2018

- Collaborated with college government association, and organized various campus events with 20 members

Software Education Volunteer

Software Education Volunteering Program, Code Club Korea

Sep. 2017 - Nov. 2017

Software Education Volunteering Program, Kyung Hee University

Spring 2019

- Instructed “Python Programming with Raspberry Pi” and “Basic Scratch Programming” classes for elementary school students and their parents.

HONORS AND AWARDS

The National Scholarship for Science and Engineering

Full tuition fee for 4 semesters, Korea Student Aid Foundation

2019

National Scholarship for Excellence in Software

12,000,000 KRW, National Program of Excellence in Software

2019

Kyung Hee Humanitas Scholarship

2,100,000 KRW, Humanitas College, Kyung Hee University

2018, 2019

Bright Society Scholarship

4,000,000 KRW, Department of Electronics and Information, Kyung Hee University

2018

TECHNICAL SKILLS

Programming Languages

Python3 and C++

Software & Tools

Tensorflow, Docker, L^AT_EX, Google Docs, and MS Office Program

Operating System

Linux, macOS, and Microsoft Windows

PROFESSIONAL MEMBERSHIP

Student Member

Institute of Electrical and Electronics Engineers (IEEE)