

# TAEWON YOO

twyoo@khu.ac.kr ◇ twy00.github.io

## EDUCATION

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### Kyung Hee University

*Bachelor of Software Convergence, Data Science Track*

**Yongin, Republic of Korea**

*Mar. 2017 - Expected Feb. 2023*

## WORK EXPERIENCE

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### Research Intern, 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 videos on YouTube according to its difficulties
- Conducted systematic literature review on interpretable machine learning
- 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

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### INTERNATIONAL CONFERENCE PAPERS (ABSTRACT)

- [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

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### 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 SGA 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

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### **The National Scholarship for Science and Engineering**

*Full tuition fee for 4 semesters, Korea Student Aid Foundation*

*2019 - 2020*

### **National Scholarship for Excellence in Software**

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

*Spring 2019*

### **Kyung Hee Humanitas Scholarship**

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

*Spring 2018, Fall 2019*

### **Bright Society Scholarship**

*4,000,000 KRW, Department of Electronics and Information*

*2018*

## TECHNICAL SKILLS

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### **Programming Languages**

Python3 and C++

### **Software & Tools**

Tensorflow, Docker, L<sup>A</sup>T<sub>E</sub>X, Google Docs, and MS Office Program

### **Operating System**

Linux, macOS, and Microsoft Windows

## PROFESSIONAL MEMBERSHIP

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### **Student Member**

Institute of Electrical and Electronics Engineers (IEEE)