

# Doyeon Kim

☎ (+82) 10-2166-1708 | ✉ rlaehdus@snu.ac.kr | 📷 yammayamm

“Learn by Experience”

## Education

### Seoul National University

M.S. STUDENT IN ARTIFICIAL INTELLIGENCE

- Data Mining Laboratory under the supervision of Prof. U Kang

Seoul, S.Korea

Mar. 2022 -

### Kwangwoon University

B.S. IN INFORMATION CONVERGENCE, MAJOR IN DATA SCIENCE

- Total GPA of 4.08 / 4.5, Major GPA of 4.16 / 4.5 (Credits taken: 137/133)

Seoul, S.Korea

Mar. 2018 - Feb. 2022

## Publication

### INTERNATIONAL

- 2023 **PLOS ONE**, Sooyeon Shim, Doyeon Kim, Jun-gi Jang, and U Kang  
*Fast and Accurate Interpretation of Workload Classification Model*

SCIE

### DOMESTIC

- 2021 **KCC2021**, Hi-Seoung Ahn, Joo-Hyun Moon, Do-Yeon Kim, Jin-Ah Kim, Yu-jin Lee.  
*A study on User Usage Patterns using OTT Web Service Log Data*

KIISE

## Internships

### Undergraduate Research

FUSION DATA ANALYTICS AND ARTIFICIAL INTELLIGENCE (FDAI) LAB UNDER THE SUPERVISION OF PROF. SUNGWON HAN

Korea University

Sep. 2021 - Nov. 2021

## Project Experience

### Interpretation model for DRAM workload classification

TEAM MEMBER

- Joint project with Samsung Electronics
- Extract interpretable features from workloads in DRAM and train a linear model for interpretation of the black-box workload classification model

Data Mining Laboratory

July.2022 - Dec.2022

### YouTube subtitles and comments analysis

TEAM LEADER, PRESENTER

- Term project for course 'Text and Opinion Mining' of 2021-Spring semester
- LDA Topic modeling the subtitles of videos and categorizing the comments based on the topics, identify preferred topics by sentiment analysis, proceed Text Summarization with TextRank Algorithm

Seoul, S.Korea

March.2021 - June.2021

### University-industry Cooperation (NHN KCP)

TEAM MEMBER

- Made OTT website using python django and javascript and collected web log data in database and analyzed users' usage pattern
- Dynamic menu structure was designed using a route prediction method based on user similarity and a recommendation system
- Submitted short paper at KCC2021 as a co-author

Seoul, S.Korea

Sep.2020 - May.2021

### Fake News Detections Algorithms project (Hosted by NH Investment & Securities)

TEAM LEADER

- Advanced to the final in 'NH Investment & Securities Big Data Competition'
- Analyzed(EDA) given news data, processed and transformed text data, studied and applied AutoML, built deep learning model for classification (Logistic Regression, RNN, CNN, etc.)
- Studied Transformer model reading paper "Attention is All You Need (NIPS 2017)", applied pre-trained Bert model

Seoul, S.Korea

Oct.2020 - Jan.2021

## Review-based product information platform start-up project

Seoul, S.Korea

TEAM MEMBER

Aug.2020 - Nov.2020

- Won the 1st prize(\$3000) in 'K-STARTUP 2020 STUDENT LEAGUE mock crowdfunding' and the 1st prize(\$3000) in 'KVP 4th Demo day'
- Studied Natural Language Processing (NLP) algorithms
- Performed sentiment analysis with laptops and food reviews, measured similarity between words to produce keywords synonym table, and predicted keyword scores by review and product

## 2020 Open Source Contributon

Seoul, S.Korea

CONTRIBUTOR, COLLABORATOR

Aug.2020 - Sep.2020

- Won the Special Prize(\$300) in '2020 Open Source Contributon' and presented at the 'Datayanolja 2020' conference
- Performed speech recognition using Tensorflow Lite, made an IOS app with the pre-trained specific sound detection model
- Reviewed Korean-English translation of our mentor's book <TinyML> and contributed to the open source by posting use cases on GitHub (<https://github.com/yunho0130/tensorflow-lite>)

## Awards & Honors

### AWARDS

2021	<b>Dean's List</b> , for Academic Excellence	Kwangwoon Univ. Korea
2020	<b>1st Place</b> , K-STARTUP 2020 STUDENT LEAGUE mock crowdfunding	Entrepreneurship Foundation
2020	<b>1st Place</b> , KVP 4th Demo day	Kyunghee Univ.
2020	<b>Dean's List</b> , for Academic Excellence	Kwangwoon Univ.
2020	<b>Special Prize</b> , 2020 Open Source Contributon	Ministry of Science and ICT

### HONORS

2021	<b>Semester High Honors</b> , awarded to students with high achievements throughout the semester	Kwangwoon Univ.
2021	<b>Software Excellence Scholarships</b> , awarded to students with excellence in software	Kwangwoon Univ.
2019	<b>English Excellence Scholarships</b> , awarded to students with excellence in English	Kwangwoon Univ.
2018	<b>Admission Scholarships</b> , awarded to freshmen with excellence in admission score	Kwangwoon Univ.

## Teaching

### SamSung Electronics Data Scientist Education (10th, 11th)

Seoul National University

TEACHING ASSISTANT(TA)

Mar. - Apr., Aug. - Sep. 2023

#### Data Structure

Seoul National University

TEACHING ASSISTANT(TA) FOR M1522.000900

Mar. 2023 - June. 2023

## Extracurricular Activity

### Algorithm Study Group

Kwangwoon University, Seoul

GROUP MEMBER

Feb. 2021 - June. 2021

- Read the same book about the algorithm that is important and frequently used
- Prepared Coding Test for IT companies using sites Baekjoon Online Judge and Programmers
- Made Team's Github Repository and uploaded our own code and reviewed each other's code

### Smart Factory Systems and Data Management Process

Jeonju

PARTICIPANT

Jan. 2021

- Participated off-line one-week course by Innovation Center for Engineering Education of Jeonbuk National University
- Practiced building virtual smart factory using Festo CIROS and MES4 programs
- Analyzed and visualized field data using Power BI and made prediction model using Azure

### Exchange Student Program

Tampere University, Finland

EXCHANGE STUDENT

Aug. 2019 - Dec. 2019

- Took 4 Major courses and one elective class
- Joined Welcome Fair, Welcome Sauna, Campus Scavenger Hunt, School Union Trip

## International Students Mentoring Program

Kwangwoon University, Seoul

MENTOR

Mar. 2019 - July. 2019

- Mentoring about school life, including the use of on-campus facilities
- Mentoring about Seoul life, including how to use public transportation, institution facilities, and opening bank accounts

## Korean Red Cross Youth (RCY) Volunteer Club

Seoul

MEMBER

Mar. 2016 - Dec. 2018

- Volunteering work at a nursing home and abandoned dog shelter and cleaned school and village

## Skills

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**Programming** Python, R, C, Java, MySQL, Android, Swift

**Deep Learning** Pytorch, Keras, Tensorflow

**Data Analysis** Numpy, Pandas, scikit-learn, Matplotlib, Tableau

## Language Proficiency

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**Fluent in English, Native in Korean**

- 2021.07 - TEPS 369
- 2021.07 - TOEIC 945
- 2020.02 - OPIC IH