

# Dawon Lee

NLP RESEARCHER · SOFTWARE DEVELOPER

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## Summary

Undergraduate student in the Department of Computer Science and Engineering at Dongguk University with a strong interest in Natural Language Processing (NLP). Experienced in machine learning, software development, and research projects. Passionate about continuous learning and exploring new technologies. Proven ability to conduct research, develop innovative solutions, and work effectively in collaborative environments. Skilled in Python, TensorFlow, and PyTorch. Enthusiastic about contributing to AI advancements and solving complex problems.

## Education

### Dongguk University

B.S. IN COMPUTER SCIENCE AND ENGINEERING

Seoul, South Korea

Mar. 2019 - Present

- Major GPA: 4.25/4.5
- Overall GPA: 4.27/4.5
- Expected graduation: Feb. 2025

## Internship

### Machine Learning Lab

RESEARCH INTERN

Dongguk University

Mar. 2023 - Present

- Conducted research on natural language processing and machine learning.
- Developed and implemented algorithms for various NLP tasks.

## Projects

### text\_classification\_yelp

NLP, CLASSIFICATION

GitHub

Dec. 2022

- Developed a text classification model using Yelp reviews.
- Achieved high accuracy by fine-tuning BERT model.

### machine\_reading\_comprehension\_kor

NLP, QA

GitHub

Jan. 2023

- Implemented a machine reading comprehension system for Korean.
- Utilized transformer-based models for question answering.

### jeju\_dialect\_translator

NLP, TRANSLATION

GitHub

Feb. 2024

- Created a translator for Jeju dialect to standard Korean.
- Employed sequence-to-sequence learning models.

### gpt2-dialogue-generation-pytorch

NLP, GENERATION, RESEARCH

GitHub, Paper

May. 2023

- Developed a dialogue generation model using GPT-2.
- Published research paper on response generation using dialogue summary.

### ER\_SENTINEL\_CtrlCV

BACKEND, SPRING BOOT

GitHub

Jan. 2024

- Implemented a backend system for emergency response management.
- Used Spring Boot framework for development.

### building\_segmentation\_dgdr

CV, SEMANTIC SEGMENTATION

GitHub

Aug. 2023

- Developed a semantic segmentation model for building detection in satellite images.
- Achieved high accuracy and participated in a related competition.

### 2024-SolutionChallenge-sMiLe

FRONTEND, FLUTTER, GEMINI

GitHub, YouTube

Feb. 2024

- Created a mobile application for mental health support.
- Used Flutter for frontend development.

# Honors & Scholarships

## 4th Place, AI Contest 2023

COMPETITION

- Achieved 4th place in a building segmentation competition.

swuniv, DACon

Aug. 2023

## Dongguk University

SCHOLARSHIPS

- Major Excellence Scholarship (Dec. 2019)
- Merit-Based Scholarship (Mar. 2020)
- SW Specialized Merit Scholarship B (Mar. 2020)
- Dongguk Talent Development Scholarship (Mar. 2024)

Seoul, South Korea

2019 - 2024

# Extracurricular Activities

## Hansori

EXECUTIVE

- Executive of the traditional Korean music club at Dongguk University.
- Organized and planned performances.

Dongguk University

Mar. 2019 - Feb. 2025

## Davinci

PARTICIPANT

- Participated in TRIZ education and mentoring programs under the Innovation Center for Engineering Education.

Dongguk University

Nov. 2019 - Feb. 2025

## Machine Learning Lab

LAB INTERN

- Conducted research and development on various NLP projects.
- Participated in academic seminars.

Dongguk University

Mar. 2023 - Feb. 2025

## GDSC

GENERAL MEMBER

- General Member of the Google Developer Student Clubs at Dongguk University.
- Presented at technical seminars.
- Participated in the Solution Challenge.

Dongguk University, Google

Sep. 2023 - Sep. 2024

## Farm System

ADVANCED

- Engaged in a farm system project at Dongguk University.

Dongguk University

Jun. 2024 - Feb. 2025

# Skills

Programming Languages	Python
Frameworks	PyTorch, Transformers
Tools	AWS Sagemaker, Git
Languages	Korean (Native), English (Intermediate)

# Publications

## A Study on Response Generation Using Dialogue Summary

Korean Institute of Information  
Scientists and Engineers (KIISE)

DOHYUN CHA, DAWON LEE, JIHIE KIM

May. 2023

- Proposed a bart model framework to generate responses by summarizing dialogue history.
- Implemented using ChatGPT to summarize and utilize dialogue context.
- Showed improved performance over traditional methods in generating context-aware responses.

## Extracting, Retrieving Persona and Generating Responses for Long-Term Open-Domain Dialogue

IEEE Transactions on Audio, Speech  
and Language Processing  
(Submitted)

DOHYUN CHA, DAWON LEE, JIHIE KIM

Jun. 2024

- Proposed ERGPerDialogue framework for persona-based dialogue response generation.
- Used Llama 2 for persona extraction and MSC dataset for training DPR model.
- Outperformed baseline models in Rouge-1 metric.