Donguk **Park**

DEEP LEARNING · RECOMMENDATION SYSTEM · GRAPH NEURAL NETWORK

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Education

Computer Science and Engineering
DONG-A UNIVERSITY
- Total GPA: 4.09/4.5, Major GPA: 4.22/4.5
- TOEIC : 790

Busan, S.Korea
Mar. 2019 - PRESENT

Research Experience

Multi-Modal POI Recommendation Using Graph Neural Network
CONDUCTING AND ASSISTING RESEARCH WITH MS. MUYEON JO AND PROF. JUNGKYU HAN
- Study about CNN, GCN, Graph SAGE, Graph Attention Network, Transformer, BERT

Busan, S.Korea
Jan. 2024 - Present

A Geographical Area Attention Model for Points of Interest Recommendation
CONDUCTING AND ASSISTING RESEARCH WITH MS. MUYEON JO AND PROF. JUNGKYU HAN
- Development of comparative models : MF-BPR, Geo-IE, GPR

Busan, S.Korea
Jun. 2023 - Jan. 2024

The Journal of Digital Contents Society(KCI) Publication
A STUDY ON XGBOOST BASED KNOWLEDGE TRACING ROBUST TO MULTIDIMENSIONAL FEATURES
- Study about LSTM, XGBOOST Model in Deep Knowledge Tracing

Busan, S.Korea
Mar. 2023 - Jun. 2023

DAU Data Science Lab – Undergraduate Research Intern
CONDUCTING AND ASSISTING RESEARCH WITH PROF. JUNGKYU HAN AND PROF. SEJIN CHUN)
- Learing about Recommendation system and Graph Neural Network

Busan, S.Korea
Mar. 2023 - Present

Project Experience

Busan Datorory Lab project using Open and Private Dataset
DETAIL
- R&D Project
- Developing Busan tour course for Tour Meka of Korea

Busan, S.Korea
Apr. 2024 - Nov. 2024

Development of information management agent for simulation of production environment through miniatures
DETAIL
- R&D Project
- Minimizes the cost of the simulation process by providing a DLL library by modularizing the function to automatically generate protocols used for communication between simulation devices.

Busan, S.Korea
Nov. 2023 - Dec. 2023

Business Card Reference Check Service with Natural Language Processing
DETAIL
- 2023 Software-centered university Hackathon
- Extracted text from business card images and summarized the company information by crawling news articles.

Busan, S.Korea
Jun. 2023 - Jun. 2023

Real-time Analysis and Dockerization of Chimney Data with Apache Spark
DETAIL
- Real-time processing of data to generate alert events when a certain number is exceeded
- To analyze the five chemical substances at the same time, I ran five containers simultaneously using Docker Compose.

Busan, S.Korea
Aug. 2022 - Nov. 2022

Extracurricular Activity

APRIL 17, 2025 DONGUK. PARK · CV 1

Docker and Kubernetes Courses for Cloud and Server Operation

Busan, S.Korea

DETAIL

Jan. 2024 - Jan. 2024

- By using Linux containers, only the parts that are different from the host OS are packaged into containers and the host's resources are shared, providing a more resource-efficient virtualization environment than existing virtual machines.

Busan IT, AI/Big Data Practical Training using python 2022, 2023

Busan, S.Korea

MEMBER

Jun. 2023 - Aug. 2023

- Learning Time : 160 hours
- Learned Graph Database, Linux, Machine-Learning, Deep Learning
- Developing a Bayesian Personalized Ranking based Recommendation System

DAU Computer Engineering Academic Club DCA Leader

Busan, S.Korea

STUDENT UNION LEADER

Mar. 2022 - Dec. 2022

- I have experience leading large groups.

Vietnam Students Association(VSA) Startup Member

Busan, S.Korea

MEMBER

JUL. 2019 - DEC. 2019

- Game Development Team Member
- Development of Korean language education game for Vietnamese students
- Using Unity 2D and 3D Engine

Honors & Awards

DOMESTIC

| 2023 | **Excellence Award**, Dong-A University DevDay | *Busan, S.Korea* |

Scholarship

2019	**scholarship for academic excellence B**, 2nd semester tuition 60%	*Busan, S.Korea*
2022	**scholarship for academic excellence C**, 2nd semester tuition 30%	*Busan, S.Korea*
2023	**scholarship for academic excellence C**, 2nd semester tuition 30%	*Busan, S.Korea*
2023	**Busan Regional Talent Scholarship**, 1,500,000 won	*Busan, S.Korea*
2024	**scholarship for academic excellence B**, 1st semester tuition 60%	*Busan, S.Korea*

Skills

Programming Language	Python, C/C++, JAVA
SW/HW Dev	Unity, Arduino, Raspberry Pi
Framework	Pytorch, Docker, Apache Spark
Operating System	Window, Linux, MacOS

References

Prof. Jungkyu Han

INTRODUCTION

- Professor at DAU, Dept. of Computer Science and Artificial Intelligence, Email: jkhan@dau.ac.kr

Prof. Sejin Chun

INTRODUCTION

- Professor at DAU, Dept. of Computer Science and Artificial Intelligence, Email: sjchun@dau.ac.kr