

Kyuhwan Shim

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[Office] Institute of Computer Technology, Room 414 (CRAIC), Seoul Nat'l University

INTERESTS	Vision-Language Model	
EDUCATION	Seoul National University , Seoul, Korea <ul style="list-style-type: none">▪ M.S. in Interdisciplinary Program in AI @ BI Lab (PI : Byoung-Tak Zhang)▪ Member of Team Tidyboy, RoboCup@Home'24 Sep 2024 – Presents	
	Sogang University , Seoul, Korea <ul style="list-style-type: none">▪ B.S. in Computer Science (RecSys A+, ML A0) Mar 2019 – Aug 2024	
	Chungnam Science High School , Kongju, Chungnam, Korea <ul style="list-style-type: none">▪ H.S.D. in Informatics Mar 2016 – Feb 2019	
RESEARCH EXPERIENCE	Undergraduate Student Researcher, BI Lab , Seoul Nat'l University, Korea Mentee, Grad. School of Data Science , Seoul Nat'l University & Google Research	Dec 2023 – Aug 2024 Dec 2023 – Feb 2024
WORK EXPERIENCE	Machine Learning Engineer Intern, Nota Inc. Seoul, Korea <ul style="list-style-type: none">▪ [Vision] Develop YOLO-based AI models for Intelligent Traffic System▪ [Edge AI] Inference Traffic Data Extractor Model on NVIDIA AGX Orin▪ [MLOps/DevOps] Construct ML Pipeline on kubeflow, AWS data lake, Git Action Senior Designer, OCONNECT Ulsan, Korea <ul style="list-style-type: none">▪ Student Venture which makes Easy-Insert Socket, OneStep (CEO Hyeong-Jun Bang) [R&D Didimdol]▪ [Achievement] Winner @ James Dyson Award '22 KR, Ulsan Collegiate Startup Competition	Mar 2023 – Aug 2023 Jun 2020 – Feb 2023
MILITARY DUTY	Yeongdong Firestation , Yeongdong, Chungbuk, Korea	Aug 2020 – Apr 2022
AWARDS	2nd Place , Data Science Graduate School @ Seoul Nat'l University Grand Prize (1st Place, Mayor of Gangseo-gu Office) , Gangseo-gu Office <ul style="list-style-type: none">▪ [PPT] Risk Rating Model for Small Business Owners using the Credit Rating Model Grand Prize (Nat'l Information Society Agency President Award) , NIA, Minister of Sci. & Tech. <ul style="list-style-type: none">▪ BIGCONTEST Data Analytics Innovation League 2022 Grand Prize (Runner-Up)▪ [PPT] [PRJ] Carbon Footprint Calculator & Eco-friendly JEJU travel route RecSys. Excellence Award , Chung-nam Science Fair (64th) <ul style="list-style-type: none">▪ [Poster] Solar Power System considering the impact of Wave Height Special Prize , Chung-nam Science Fair (63th) <ul style="list-style-type: none">▪ [Poster] Laser Cutting Machine Using Mechanum Wheels	2024 2023 2022 2018 2017
SCHOLARSHIPS	SNU AI Fellowship , Seoul Nat'l University Sogang University Alumni Scholarship , Sogang University Alumni Association <ul style="list-style-type: none">▪ Scholarship for General (2020), Startup Talents (2022)▪ Priest Villarreal Memorial Scholarship (2023-2024) [Awarded from SMILEGATE CEO] Albatross Scholarship , Sogang University [talents in SW Fields]	2024 Fall - 2026 Summer 2019
ACTIVITIES	[Samsung AI Challenge / SAIT] Camera-Invariant Domain Adaptation Challenge <ul style="list-style-type: none">▪ [DACON] Domain Adaptive Segmentation Algorithm Robust to Camera Changes▪ [Link] Top 30 with SePiCo & Joined Talent pool of Samsung Electronics [LG AI Research]: Online AI Education & Hackathon <ul style="list-style-type: none">▪ [LG Aimers & DAICON] Smart Factory Product Quality Status Classification AI Online Hackathon▪ Phase 3 Online Hackathon Finalist, Phase 2 Top 30 (3% for 891) INSIGHT , Data Science Group @ Sogang Business School Co-Founder, Chief Design Officer, Programmer , OCONNECT Google Machine Learning Bootcamp , Google Korea Sogang ICPC Team / Release , Sogang CS	Sep 2023- Sep 2023 Jan 2023- Mar 2023 Sep 2022- Jun 2023 Jun 2020- Present Sep 2021- Dec 2021 Mar 2019 – Present

CERTIFICATES	Certificate in Tensorflow Developers , Tensorflow Certificate Program	Oct 2021 – Oct 2024
	Advanced Data Analytics Semi-Professional , Korea Data Agency	Apr 2021
	ITQ (MS Office) & GTQ (Photoshop)	Oct 2011
MEDIA	'Nunettine' wins Grand Prize at Gangseo-gu Big Data Contest , Sogang People	May 2023
	'DAVENGERS' wins BIGCONTEST Data Analytics Innovation League , Sogang People	Dec 2022
	UNIST venture 'OCONNECT' wins James Dyson Awards 2022 , UNIST Press	Sep 2022
SPEECH	▪ [PDF] Seminar Samsung DACON Challenge - Domain Adaptation @ Release(Sogang CS)	Dec 2023
	▪ [PDF] Seminar Dive into YOLOv8 @ Nota Inc.	Mar 2023
	▪ [PDF] Undergraduate Speech at Carbon Neutral Workshop @ Shinhan Card & World Bank	2023
LANGUAGES	▪ Korean: Native / English: Fluent	
	▪ Hanja : Lv-3 (Korea Association for the Promotion of Hanja Edu.)	
PROJECTS	Samsung AI Challenge - Camera Invariant Domain Adaptation	Sep 2023 –Oct 2023
	▪ [PPT] Domain Adaptation for Fisheye Images with SePiCo	
	▪ [My Job] Applying Fisheye Augmentation, Transformer based Segmentation model, Model Research	
	▪ [Tech Stack] Python, Pandas, NumPy, PyTorch Hyunjae Kim,	
	Game Review Dashboard Implementation with NLP Sentimental Analysis	May 2023 –Jun 2023
	▪ [PPT] Game Review Analysis Dashborad applying NLP Methods : BiLSTM, KoBERT (Fine-tuned)	
	▪ [My Job] Developing Game Review NLP Dashboard Main Page Configuration	
	▪ [Tech Stack] Python, Pandas, NumPy, PyTorch, TensorFlow, Docker, FastAPI, KoNLPy, Plotly	
	▪ [Team NT Fragile] Hyunjae Kim, ChanJoong Lee, Beomyun Kwon, Chanho Park, Minhye Lee	
	Risk Rating Model for Small Business Owners using the Credit Rating Model	Mar 2023 –May 2023
	▪ [Award] [PPT] Mayor of Gangseo-gu Office Award	
	▪ Integrated data in Gangseo-gu, focusing on data from the Seoul Credit Guarantee Foundation	
	▪ Risk Rating model for small business owners in Gangseo-gu using the credit rating model	
	▪ [Link] Creating a Risk Index Dashboard with Tableau	
	▪ [My Job] Data Analysis & Processing, Designing Presentation	
	▪ [Tech Stack] Python, Pandas, NumPy, Tableau	
	▪ [Team NUNETTINE] Heejin Park, Mijung Bang, Moonil Yang	
	Eco-friendly travel route RecSys in Jeju Island	Sep 2022 – Oct 2022
	▪ [Link] [Award] [PPT] Nat'l Information Society Agency (NIA) President Award	
	▪ [My Job] Prototype Design with Streamlit & Design an Official Project Webpage, CI/CD with GitHub	
	• Assist on applying NLP methods and designing an user-specific ML algorithm	
	▪ [1] Carbon Footprint Calculator Construct Carbon Footprint Calculator by Travel Area	
	• Defined Categories : Traffic, Food, Accommodation and Tourism	
	• Crawling raw data from 'VISIT JEJU' & 'NAVER Map'	
	• Processing & Cleansing & EDA and Design Calculator Logic for those 4 categories	
	▪ [2] Eco-Friendly & User-Specific JEJU Travel Route Recommender System	
	• [Traveler Feature Hexagon] Deployed with Streamlit	
	• [Link] Score Calculation by Tourist Spot with NLP, Word2Vec, t-SNE, Clustering	
	• [Link] Rule-Based Machine Learning Algorithm	
	▪ [Team DAVENGERS] Jeonghyun Ha, Kyunghoon Na, Kyungjoo Ko, Hannah Jung	