Kyuhwan Shim

khshim@bi.snu.ac.kr • https://bi.snu.ac.kr/~khshim • LinkedIn **[Office]** Institute of Computer Technology, Room 414 (CRAIC), Seoul Nat'l University

INTERESTS	Vision-Language Model				
EDUCATION	Sogang University, Seoul, Korea				
	■ B.S. in Computer Science (RecSys A+, ML A0)	Mar 2019 – Aug 2024			
	Chungnam Science High School , Kongju, Chungnam, Korea ■ H.S.D. in Informatics	Mar 2016 – Feb 2019			
WORK EXPERIENCE	•				
EM EMENCE	 Machine Learning Engineer Intern, Nota Inc. Seoul, Korea [Vision] Develop YOLO-based AI models for Intelligent Traffic System [Edge AI] Inference Traffic Data Extractor Model on NVIDIA AGX Orin (at I 	Mar 2023 – Aug 2023			
	■ [MLOps/DevOps] Construct ML Pipeline on kubeflow, AWS data lake, Git Action				
	Senior Designer, OCONNECT Ulsan, Korea	Jun 2020 – Feb 2023			
	 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 				
RESEARCH	Undergraduate Student Researcher, BI Lab, IPAI@Seoul Nat'l U., Korea	Dec 2023 – Aug 2024			
EXPERIENCE	Mentee, Lee Lab, Data Science@Seoul Nat'l U. & Google Korea	Dec 2023 – Feb 2024			
MILITARY DUTY	Yeongdong Firestation, Yeongdong, Chungbuk, Korea	Aug 2020 – Apr 2022			
AWARDS	ExploreCSR Workshop 2nd Place, Data Science Graduate School @Seoul Nat'	l U 2024			
	Grand Prize (1st Place, Mayor of Gangseo-gu Office), Gangseo-gu Office				
	• [PPT] Risk Rating Model for Small Business Owners using the Credit Rating Model 2023				
	Grand Prize (Nat'l Information Society Agency President Award), NIA, Minister of Sci. & Tec				
	 BIGCONTEST Data Analytics Innovation League 2022 Grand Prize (Runner-United Internal Programme Colorabota Scientific Programme Colorabota Scienti				
	• [PPT] [PRJ] Carbon Footprint Calculator & Eco-friendly JEJU travel route Re Excellence Award , Chung-nam Science Fair (64th)	ecSys. 2022			
	• [Poster] Solar Power System considering the impact of Wave Height	2018			
	Special Prize, Chung-nam Science Fair (63th)	2010			
	■ [Poster] Laser Cutting Machine Using Mechanum Wheels	2017			
SCHOLARSHIPS	Sogang Alumni Scholarship, Sogang University Alumni				
	■ 1-Semester full scholarship - General (2020), Startup (2022)				
	 Priest Villarreal Memorial (2023-2024) [Sponsored by SMILEGATE] 				
	Albatross Scholarship, Sogang University [talents in SW Fields]	2019			
	Myunghak Scholarship, Kongju Myunghak Scholarship	2017			
	Samsung Dream Scholarship, Samsung Dream Scholarship Foundation	2016			
ACTIVITIES	[Samsung AI Challenge / SAIT]Camera-Invariant Domain Adaptation Challeng	e			
	■ [DACON] Domain Adaptive Semantic Segmentation Alg. Robust to Camera Characteristic Changes				
	■ [Link] Top 30 with SePiCo & Joined Talent pool of Samsung Electronics	Sep 2023- Sep 2023			
	[LG Aimers / LG AI Research]: Online AI Education & Hackathon	•			
	• [DACON] Smart Factory Product Quality Status Classification AI Online Hack	kathon			
	Phase 3 Online Hackathon Finalist, Phase 2 Top 30 (3% for 891)	Jan 2023- Mar 2023			
	INSIGHT, Data Science Group @ Sogang Business School	Sep 2022- Jun 2023			
	Co-Founder, Chief Design Officer, Programmer, OCONNECT	Jun 2020- Present			
	Carala Madina I amina Dantana Carala Vana	C 2021 D 2021			

Sep 2021- Dec 2021

Mar 2019 - Present

Google Machine Learning Bootcamp, Google Korea

Sogang ICPC Team / Release, Sogang CS

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, Sogan	g People Dec 2022
	UNIST venture 'OCONNECT' wins James Dyson Awards 2022, UNIST Press	Sep 2022
SPEECH	• [PDF] Seminar Samsung DACON Challenge - Domain Adaptation @ Release(S	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

■ [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] Applying Fisheye Augmentation, Transformer based Segmentation model, Model Research

- [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

• [PPT] Domain Adaptation for Fisheyed Images with SePiCo

- [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

OCONNECT

http://oconnect.kr



ONE STEP, an easy to plug in outlet

REP.	CEO Hyeong-Jun Bang			
MEMBERS	CTO Jinseo Park CDO Kyuhwan Shim			
LOCATION	UNISPARK, UNIST Bldg. 307 1F, 50, UNIST-gil, Eonyang-eup, Ulju-gun, Ulsan, Republic of Korea			
AWARDS	 JAMES DYSON AWARD 2022 - Nat'l, Korea, James Dyson Found Winner (TOP 3), International Competetion PIN UP Concept Design Award 2021, KAID 	undation Jul 2022		
	 BEST 100 in Living Goods Design Busan-Ulsan-KyungPook Startup Day Innovation Ventures Samsung Electronics 	Dec 2021 League		
	KyungPook, Ulsan, Busan Creative Econ. & Innov. Center Excellence Prize at Futures' League	Dec 2021		
	 Challenge K-Startup Expo: Collegiate Competition Ministry of SMEs and Startups, Korean Institute of Startup & Entrepreneurship Developemen 	t		
	 Top 10, Offline Exhibition Top 50, Offline Exhibition Social Challenge alpha 7, OhMyCompany, BSS, LISCC 	Oct 2021 Aug 2019		
	 Challenge Award, Crowd Funding (Funded 1,424,000 KRW) Ulsan Collegiate Startup Excellent Idea Contest 	Sep 2020 – Dec 2020		
	Ulsan Creative Econ. & Innov. Center Winner: Grand Prize Institute of Science & Technology Startups Competition	Nov 2020		
	KAIST, GIST, DGIST, UNIST, POSTECH Representative of UNIST (Top 2 at UNIST) Representative of UNIST (Top 3 at UNIST)	Dec 2020 Nov 2019		
FUNDINGS & SUPPORT	 DIDIMDOL First Step - Startup Growth Development Project Ministry of SMEs and Startups, 	DOL First Step - Startup Growth Development Project,		
PROGRAM	Recommended from Ulsan Creative Econ. & Innov. Center	Aug 2022 – Jul 2023		
	 Ulju Youth Startup Academy, Ulsan Youth Startup Center Pre-IBK Changgong @ UNIST, UNIST, IBK Changgong Private-Sector Open Start-up Revitalization Project, 	Mar 2022 – Dec 2022 Jul 2022 – Nov 2022		
	Ulsan Creative Econ. & Innov. Center BUSAN BIGS Program,	May 2022 – Oct 2022		
	Busan-si, KSD, KHUG, KOSPO, HF, KIBO, Busan PA, BNK Innopolis Campus for Ulsan Collegiate, UNIST, Innopolis	Mar 2022 – Sep 2022 Jun 2021 – Aug 2022		
	 12th UEPA Startup Incubator, Ulsan Youth Startup Center Mar 2021 – Dec 2021 SBC Youth Entrepreneurship Academy, Korea SMEs and Startups Agency Most Funded Startup Company (100,000,000 KRW) 			

Excellent Completion at Pre-School

	'Pre-School' Completion of Excellence & Youth Startup Acad Nov 2021	demy N	ov 2020 –
	 UNIST UNIcorn Start-Up Support Program, UNIST Funding (12,000,000 KRW) Participated for Four Semesters KISED Pre-Startup Package (General Field), 	Sep 2019 -	- Feb 2021
	Korea Institute of Startup & Entrepreneurship Development Most Funded (70,000,000 Won)	Apr 2020–	Dec 2020
ACTIVITIES	 Ulsan Knowledge-Technology Startup Center, Ulsan Technology Patent IP Training Education, Intellectual Property Office K-Camp Busan, Krypton 	opark Jun 2020 – Nov 2019 –	
MEDIAS	 UNIST Startup OCONNECT wins at JAMES DYSON AWARD UNIST Press, CHOSUN Ilbo, Segye Ilbo, Sisa-news, Newsis UNIST 2021 Innopolis Performance Presentation, UNIST Press, UlsanDaily, ETNews UNIST UNISPARK for Young Entrepreneurs UNIST Magazine Southeast Venture Competition held by UNIST Lab Startup The Korea Economy TV "New evolution of electrical outlets" OneStep is released The Korea Economic Daily "Make a 'National Outlet' which 'Connects' warmth to each UNIST Magazine 2021 Spring "Doing businesses regardless of COVID-19" - Leap forward 	e 2021 Winter o Innovation h other"	Group Dec 2021 Dec 2021 Feb 2021 blogy
PATENTS	 SBS, UBC Patent Registration Patent Application Design Registration Application, H. J. Bang(2021) 		Feb 2021
	 International PCT Application 		