YongJin Kim

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EDUCATION

Mar. 2025 ~ Present	**Korea University** Department of Artificial Intelligence *Master Student*	Seoul, Korea
Mar. 2021 ~ Aug. 2024	**Konkuk University** Department of Computer Science and Engineering *B.S. in Computer Science and Engineering* GPA: 4.46 / 4.5 *Summa Cum Laude*	Seoul, Korea
Mar. 2017 ~ Aug. 2024	**Konkuk University** Department of Business Administration *B.S. in Business Administration* GPA: 4.32 / 4.5 *Summa Cum Laude*	Seoul, Korea

RESEARCH INTERESTS

- Image Tokenizing (VQ-VAE, VQ-GAN...)
- Unified Multimodal Language Model
- Score Based Model

RESEARCH EXPERIENCES

- Research Intern at Department of Artificial Intelligence, Korea University, Korea (Jan. 2024 ~ Present) / Research about Ego-Centric Hand Pose Estimation Model

PROJECTS

Image Personalization With SDXL

- Lora & Dora Fine-Tuning for Image Personalization using SDXL
  - Using Textual Inversion & DreamBooth
- Using LLM(Llama 3.1) for Prompt Augmentation

- Link: https://drive.google.com/file/d/1fzipseZaUZbYMoVzFsclZJpfkKu2upII/view?usp=drive_link

Implementation RBM, VAE, GAN with Pytorch Lightning

- Review the paper and implement the model with Pytorch Lighting
- Visualize results using MNIST
- Increasing understanding of thesis formulas and concepts by directly implementing models that were studied theoretically only in the paper
- Link: https://pulyong.github.io/projects/1-generative-model-implementation

Hand,Car Video Detection using Early Vision Method

- Perform Object Detection without using Deep Learning methodology.
- The Machine Learning methodology is also used only to remove the background
- Create a bounding box using color channel changes, Morphology, and Connected Components.
- Link: https://pulyong.github.io/projects/2-early-vision1

Classification using Early Vision Method

- Implemented a model that classifies 10 of the 12 classes of Recaptcha dataset, excluding Mountain and Other classes, using SIFT and LBP
- Use Bag of Visual Words methodology to conduct classification
- Link: https://pulyong.github.io/projects/3-early-vision2

Building Clothing Recommendation and Review Summary Sites

- Building a pair dataset in the absence of a Korean category/keyword pair dataset
- Keyword extraction using Khaiii tokenizer and Word2Vec
- keyword tagging using SKT's KoBert
- Link: https://pulyong.github.io/projects/6-bsinsa-project

Other Project: https://pulyong.github.io/projects/

CAREER PATH

- Integrated MS/Ph.D Candidate at Department of Artificial Intelligence, Korea University, Korea (Mar. 2025 ~ Present) / Prof. Sung Woong Kim
- Research Intern at Department of Computer Science and Engineering, Korea University, Korea (Nov. 2024 ~ Feb. 2025) / Prof. Sung Woong Kim
- Research Intern at Department of Computer Science and Engineering, Korea University, Korea (May. 2024 ~ Nov. 2024) / Prof. Hyun Woo Kim
- Research Intern at Department of Artificial Intelligence, Korea University, Korea (Jan. 2024 ~ May. 2024) / Research about Ego-Centric Hand Pose Estimation Model / Prof. Sangpil Kim
- Tobigs 21th, Big Data analysis & Machine Learning society, Korea (Jan. 2024 ~ Jan. 2025)
- Google Machine Learning BootCamp 4th, Google Korea, Korea (Sept. 2023 ~ Nov. 2023)
- BITAmin 9th, Big Data analysis society, Korea (Feb. 2022 ~ Feb. 2023)
- Student, Konkuk University, Korea (Mar. 2017 ~ Aug. 2025) / Major & Double Major : Business Administration & Computer Science

AWARDS AND HONORS

- Binary Prediction of Smoker Status using Bio-Signals Top 5%, 87th/1908, Kaggle, Korea (Nov. 2023)

- Dean's List, Konkuk University, Korea (Aug. 2021)
- Scholarship given by Kyeong-Geun Jeong for Academic Excellence, Konkuk University, Korea (Oct. 2021)
- Scholarship for Academic Excellence, Konkuk University, Korea (Feb. 2019)
- Scholarship for Academic Excellence, Konkuk University, Korea (Aug. 2018)

CERTIFICATES

- Tensorflow Developer Certificate, TensorFlow
- Neural Networks and Deep Learning, DeepLearning.AI
- Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization, DeepLearning.AI
- Structuring Machine Learning Projects, DeepLearning.AI
- Sequence Models, DeepLearning.AI
- Convolutional Neural Networks, DeepLearning.AI