

Yongdeuk Seo

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OBJECTIVE	Provide solutions to real-world problems and create everyday convenience as an AI Engineer.
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WORK EXPERIENCE	2023/08 – 2023/12 AI Engineer, Tomocube Inc., Seoul, Korea <ul style="list-style-type: none">Developed SAM-based web image auto-annotator for cell image.Built an LoRA-based MLOps retraining pipeline on curated data for user-tailored updates.Deployed FastAPI, Docker backend with MySQL and a GPU job queue for training/inference.
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EDUCATION	2017/03 – 2024/02 Pukyong National University Department of Industrial and Management Engineering & Technology and data Engineering <i>B.S. in Systems Management and Engineering (GPA: 4.1 / 4.5)</i> 2024/03 – 2026/02 Pukyong National University Department of Industrial and Data Engineering <i>Master Student (GPA: 4.44 / 4.5)</i>
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SKILLS	Programming: Python, JavaScript AI Tools: OpenAI Codex, Cursor ML/DL: PyTorch, Diffusers, LoRA, OpenCV, LangGraph, Numpy, Pandas Experiment & Serving: CUDA, Tensorboard; FastAPI, Docker, Github Actions, AWS Databases: MySQL, PostgreSQL+PGVector
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CONFERENCE PAPERS	Seo, Y.; Noah, L.; Min, H.S.; Choi, S.; “T-RADAR: Simulating Trademark Examination as an Interactive Retrieval Interface for Conflict Risk Assessment.” <i>International ACM SIGIR Conference on Research and Development in Information Retrieval Demonstration Track.</i> (2026) Seo, Y.; Min, H.S.; Choi, S. “STELLAR: Scene Text Editor for Low-Resource Language and Real-World Data.” <i>The Association for the Advance of Artificial Intelligence (AAAI) Workshops Oral.</i> (2026) Seo, Y.; Kwon, Y.; Lee, N.; Jung, K.; Cho, S.; Jang, S.; Choi, S. “KIMCHI: Korean Diffusion Model Adapting Culture and History.” <i>Society for Computational Design and Engineering 2025 Winter Conference Oral.</i> (2025) Jung, K.; Seo, Y.; Cho, S.; Kim, J.; Min, H. S.; Choi, S. “DALDA: Data Augmentation Leveraging Diffusion Model and LLM with Adaptive Guidance Scaling.” <i>European Conference on Computer Vision (ECCV) Workshops Oral.</i> (2024)
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PATENTS	Choi, S.; Seo, Y.; Jung, K. “AI Agent-based Composite Similarity Calculation System and Method for Trademark Search and Registration.” <i>Korean Patent Application (Filed)</i> No. 10-2025-0165072, Filed Nov 5, 2025. Choi, S.; Jung, K.; Seo, Y. “System and Method for Creating Fire Image for Training Artificial Intelligence Model.” <i>Korean Patent Application (Published)</i> No. 10-2025-0021779, Published Feb 14, 2025. Filed Aug 7, 2023.
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PROJECTS	2025/02 – 2025/08 CABIN: Role-separated synthetic data augmentation framework for 1-shot classification <ul style="list-style-type: none">Proposed an LLM-guided synthetic data augmentation framework that separates diversity and key features.Designed a multi-stage learning strategy to improve both representation diversity and class consistency.Submitted to Neurocomputing and currently under review. 2024/08 [Hackathon] Gymnius: Developed a demo app for automatic exercise logging and recommendation <ul style="list-style-type: none">Implemented voice-based exercise logging with Whisper API, and used Upstage Solar API for data parsing, and workout recommendationDeveloped backend server and performed prompt engineeringAwarded Excellence Prize
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