YELIM LEE

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ABOUT

I am an undergraduate in Software and Computer Engineering at Ajou University and an AI Research Intern at INEEJI, where I build agents that read weather charts for forecasters. My primary interest lies in *trustworthy AI agents and systems* for finance and high-stakes domains, including explainable AML and compliance infrastructure for blockchain. I aim to build reliable, transparent, and verifiable AI solutions for critical real-world applications.

EDUCATION

Ajou University Mar 2023 – Present
B.S. in Software and Computer Engineering
MicroDegree in Blockchain Programming (Beginner)

EXPERIENCE

AI Research Intern, INEEJI Sep 2026 – Present
Research Team 2 · AlphaWeather, an AI assistant for weather forecasters

- Designed a background-removal preprocessing tool based on cropping, color separation, and brightness, raising Gemma's recognition accuracy of high/low-pressure locations and values on weather charts from 24.9% (Gemma alone) to 99.7% (with the tool).
- Diagnosed the crop-range bottleneck of a CNN that extracts station temperatures from weather charts, improving accuracy from 72.7% to 90.4%; on the same task, GPT-4o and Gemini reached 48% and 62%.
- Experimenting with fine-tuning open-source Gemma and tool calling for air-gapped deployment, toward a common model that works across chart types (in progress).
- Reviewed a rubric-based VQA evaluation set and built an automated QA-generation pipeline to evaluate and improve answer accuracy.

Reporter, Financial Friends Apr 2026 – Present
Financial Services Commission (금융위원회)

- Producing 7 policy explainer videos for the FSC YouTube channel (ongoing), covering security tokens (STO), illegal crypto-asset operators, and single-stock leveraged products.

Member, Blockchain at Yonsei (BAY, 16th) Jul 2025 – Jun 2026
Development & Research Team

- Led crypto-monitoring sessions and studied DeFi and AML trends; developed smart contracts and joined hackathons.

Founder, Paletting Aug 2023 – Dec 2023
Values-based matching platform

- Designed a survey-driven matching algorithm and led a team of 4 across planning, design, and operations.
- Acquired 500+ users through social media marketing.

SELECTED PROJECTS

집지기 (Jipjigi): An LLM Agent for Young Adults' Housing Decisions 2026
8th KB Future Finance AI Challenge, Excellence Award (with Minjae Choi)

- Built a Text-to-SQL RDB-RAG pipeline for listing search, improving retrieval accuracy from 70% to 96%.
- Designed a prior-lien deposit estimation model for jeonse-fraud risk, informed by interviews with 30 brokers and young tenants. [video] [news]

TRACE-X: Explainable AML Risk Scoring for Blockchain Addresses 2025
AJOU SOFTCON 2025-2 Research Track, Excellence Award (Team 말해뭐해)

- Designed a 28-rule compliance engine citing Korean AML law and FATF that explains each flag through triggered rules, reported alongside a 15-feature gradient-boosting score.
- Added compliance gating that raises a top-priority review signal on direct sanctions or mixer exposure. [code] [video]
- Held-out set (926 addresses): Accuracy 97.0%, Recall 90.9%, ROC-AUC 99.3%, PR-AUC 97.3%.

XAI-AML: Explainable Suspicious Transaction Detection 2025
AJOU SOFTCON 2025 SW Fundamentals Track, First Prize

- Built SHAP/LIME explanations over a LightGBM detector and automated template-based STR report generation. [code]

HONORS & AWARDS

2026	Excellence Award, 8th KB Future Finance AI Challenge	*KB Kookmin Bank*
2025	Excellence Award, AJOU SOFTCON 2025-2 (Research Track)	*Ajou University*
2025	Award, Paran Semester Program (TRACE-X)	*Ajou University*
2025	First Prize, AJOU SOFTCON 2025 (SW Fundamentals)	*Ajou University*
2025	Excellence Award, 5th SW Convergence Startup Camp (Trusticket)	*Kyung Hee University*
2025	Selected, Student Startup 300+ Program (Trusticket)	*Ministry of Education & MSIT*
2024	4th Place, Future Library Policy Idea Hackathon	*NIA*

SKILLS

Proficient Python, C, C++, Java, Git
Experienced PyTorch, TensorFlow, Docker, JavaScript, Solidity