

Seoul, South Korea
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Minkey Chang

Data Scientist / AI Engineer

Portfolio: minkeychang.com
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I build and evaluate models for time series, reinforcement learning, and agentic systems (e.g. Graph RAG), and I have shipped work in market research and credit-bureau data. I am looking for a role where I can contribute to quantitative research and applied ML end to end—from problem framing and experimentation to production-ready pipelines and clear documentation.

SKILLS

Languages	Korean (Native), English (Fluent), French (Intermediate)
Programming	Python, R, SQL, Linux
Focus areas	Time series forecasting, reinforcement learning, synthetic data, agentic AI (LangGraph, RAG)
Libraries & Tools	PyTorch, Synthcity, Git, LangGraph

TECHNICAL EXPERIENCE

Data Scientist / Macro Economic Forecasting Nov 2025 — Jan 2026
KDI (Korea Development Institute)

- Compared time series models (transformers, factor models) on macro data for nowcasting.
- Set up the evaluation pipeline (data prep, training, one-step vs. multi-horizon) for reproducible comparison.

Data Scientist / Tabular Data Synthesis Oct 2024 — Jan 2025
NICE Credit Bureau Seoul, South Korea

- Researched synthetic data for consumer credit: preserve utility, prevent re-identification.
- Implemented sequential synthesis (Synthpop-style) in Python; contributed module to Synthcity.

Market Research / Automotive Market Analysis Oct 2021 — Feb 2023
Hyundai Motor Company Seoul, South Korea

- Built and validated group-wide demand-forecast database; integrated S&P Automotive, EV Volumes, internal data.
- Delivered long-term forecasts by powertrain (EV, ICE, HEV, PHEV); reports on European EV and structural shifts.

Intern / Airport GSE Pooling Analysis May 2021 — Aug 2021
Incheon International Airport Corporation (IIAC) Incheon, South Korea

- Negotiated with TCR (Europe) on GSE pooling for ground-operation efficiency.
- Analyzed equipment-usage data for cost savings and SDG impact; presented findings.

WORK EXPERIENCE

Capstone Project, NICE Credit Bureau Oct 2024 — Jan 2025
Market Researcher, Hyundai Motor Company Oct 2021 — Feb 2023
Internship, Incheon International Airport Corporation (IIAC) May 2021 — Aug 2021

EDUCATION

Graduate (expected), Seoul National University, Economics Mar 2023 — Aug 2026
Big Data Fintech AI Expert (completed), Seoul National University, national training program Jun 2024 — Jan 2025
Bachelor, Sungkyunkwan University, Statistics Mar 2019 — Aug 2021
Withdrew, Sogang University, International Korean Studies & Economics Mar 2014 — Feb 2019

ACTIVITIES

Organizer, Magok reading club Aug 2023 — Nov 2024
Teaching Assistant, Economic Statistics, Big Data for Economic Forecasting Mar 2023 — Dec 2025
App development, Blind navigation app prototype (Swift, on-device vision; Miracle Industrial). May 2025 — Jul 2025
Undergraduate Awards, Four awards; e.g. PCA-based UAM stop location study, survey on youth preferences for wages vs. work-life balance and career prospects. Jan 2015 — Nov 2020
Competitions, BirdCLEF 2025 (audio), Hecto AI (vehicle image classification), Mitsui & Hull Tactical (asset/time-series forecasting). Jan 2024 — Nov 2025

PUBLICATIONS

(Forthcoming) *Raising My Agent: LangChain & LangGraph v1*. Wikidocs.
ICLR 2026 FinAI workshop (long paper) Chang, M., & Kim, J.-Y. *Conditionally Identifiable Latent Representation for Multivariate Time Series with Structural Dynamics*. [arXiv:2603.22886](https://arxiv.org/abs/2603.22886).
ICLR 2026 FinAI workshop (short paper) Chang, M. *Portfolio Optimization under Recursive Utility via Reinforcement Learning*. [arXiv:2603.22880](https://arxiv.org/abs/2603.22880).