

Yejin Hwang

Bilingual Financial Analyst (Korean/English) · Data Analyst

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SUMMARY

Bilingual (Korean/English) analyst with 2.5+ years of experience in financial data analysis, forecasting, reporting, and cross-functional collaboration across healthcare and finance domains. Experienced in building Excel-based reporting workflows, variance analysis, and management-ready financial reports. Financial time-series forecasting research submitted to KDD 2026 (10 U.S. equities, +213.6% IC improvement). Proficient in Python, SQL, R, and Excel; experienced in Tableau and Power BI. Graduate Fellow at TAMUCC (GPA 4.0/4.0). STEM OPT eligible (3 years).

SKILLS

Finance & Reporting: Financial Forecasting · Variance Analysis · Budget Monitoring · Ad-hoc Reporting · Month-end Close Support

Analytics & Tools: Microsoft Excel (Pivot Tables, VLOOKUP, Financial Modeling) · SQL · Python · R · Power Query

ML & AI: Time-Series Forecasting · Transformers (TFT, FinBERT) · NLP / LLMs · Explainable AI

Visualization & Reporting: Tableau · Power BI · KPI Dashboard Development · Matplotlib · Seaborn · Technical Writing

Soft Skills: Bilingual Korean/English · Cross-functional Collaboration · Stakeholder Communication · Fast Learner

EDUCATION

Texas A&M University—Corpus Christi

Master of Science in Data Science

Texas, USA

Expected May 2026

- GPA 4.0/4.0 · Graduate Fellowship — full tuition scholarship for academic excellence
- Coursework: Deep Learning, Machine Learning, Numerical Methods, Computational Statistics

Sungkyunkwan University (SKKU)

B.S. Culture & Technology · Double Major: Food Science & Biotechnology

Seoul, South Korea

Aug 2023

- GPA 3.7/4.5 · SKKU President's Award (1st Place, R&D Innovation) · Samsung Foundation Research Fellowship
- SKKU ranks #16 in Asia · #87 globally (QS/THE 2026) — top 4 universities in Korea

EXPERIENCE

Texas A&M University—Corpus Christi — AI & Machine Learning Lab

Graduate Research & Teaching Assistant

Texas, USA

Aug 2024—Present

- Built financial forecasting pipeline (TFT + FinBERT) across 10 U.S. equities over 1,000 trading days; achieved +213.6% IC improvement and 20.19% cumulative return, demonstrating quantitative forecasting and financial performance analysis.
- Maintained reproducible data workflows and version-controlled documentation, ensuring auditability and consistency across all research deliverables.
- Designed variance analysis tables and summary dashboards communicating forecast accuracy and model performance to both technical and non-technical audiences.
- Held office hours and assisted instruction for undergraduate math courses (Algebra, Geometry, Calculus, Statistics); Graduate Fellowship — full tuition scholarship.

Samsung Medical Center — Clinical Epidemiology, Data Science Team

Clinical Data Analyst

Seoul, South Korea

Aug 2022—Jul 2023

- Engineered automated ETL pipelines integrating multi-source clinical datasets (CRF and EMR); reduced data processing time by 30%, accelerating reporting cycles for grant deliverables and operational planning.
- Built and maintained Excel-based reporting templates for patient-outcome and Quality of Life datasets; delivered structured reports to program managers supporting budget planning and operational decisions.
- Led data quality validation across multi-department clinical datasets, maintaining accuracy, completeness, and compliance standards aligned with audit requirements.
- Collaborated cross-functionally with clinicians, statisticians, and program managers to translate complex operational data into management-ready reporting outputs.

SKKU Nutritional Epidemiology Lab (Biostatistics)

Undergraduate Researcher

Seoul, South Korea

Mar 2022—Jul 2022

- Performed statistical modeling and data analysis on nutrition–cancer datasets; produced structured visualizations and summary reports supporting research team decisions.
- Conducted EDA identifying key variables and presented findings to faculty and research leads.

PROJECTS

Can Reddit Predict the Stock Market? — Deep Learning + Social Sentiment

KDD 2026 · Under Review

github.com/Yejin-Hwang/Financial-Time-Series-Forecasting-with-Deep-Learning-and-Social-Media-Sentiment

- Built a multimodal forecasting framework (TFT + FinBERT) across 10 large-cap U.S. equities · 1,000 trading days; demonstrated that social media sentiment is a measurable, predictive financial signal.
- **Business impact:** +213.6% IC improvement · 20.19% cumulative return · Sharpe ratio 2.74 vs. baseline models.
- Used TFT variable importance plots to validate that sentiment genuinely contributed to predictions, ensuring analytical transparency.

Finance RAG — Financial QA over SEC 10-K Filings

Spring 2026

github.com/Yejin-Hwang/finance-rag

- Built a full Retrieval-Augmented Generation (RAG) pipeline answering financial analyst questions grounded in SEC 10-K filings from Apple, Microsoft, Tesla, Google, and Amazon.
- Evaluated chunk size and top-k retrieval configurations across 90 runs; best config (chunk_size=256, top-k=3) achieved accuracy 0.9 with lowest latency.
- Stack: FAISS vector store · Sentence-BERT embeddings · GPT-3.5 · PyMuPDF · Python.

TAMU Enrollment Trends — Tableau Dashboard

2026 · Ongoing

yejin-hwang.github.io · Data source: NCES IPEDS 2024

- Working with real-world institutional data (NCES IPEDS): cleaning, transforming, and building an interactive Tableau dashboard.
- Demonstrates full data workflow: raw data → Power Query / SQL cleaning → Python/Pandas transformation → Tableau visualization.

Apple in Korea — Consumer Brand Analytics Dashboard

2026 · Ongoing

yejin-hwang.github.io

- Built an analytical data story exploring Apple's product line performance in the Korean consumer market using Tableau Public.
- Demonstrates ability to structure ambiguous datasets into clear, audience-ready visual narratives.

PRESENTATIONS & CONFERENCES

Conference of Texas Statisticians (COTS) 2026

Apr 2026

Poster presentation — thesis research on multimodal financial forecasting with social media sentiment

10th Coastal Bend Mathematics & Statistics Conference

Apr 2026

Oral presentation — updated thesis results on financial time-series forecasting with sentiment signals

SHPE National Convention 2025

Nov 2025

Research presenter; audience included engineers from Bloomberg, Goldman Sachs, Morgan Stanley, Capital One

9th Coastal Bend Mathematics & Statistics Conference

Apr 2025

Oral presentation — multimodal time-series forecasting with Reddit sentiment

Joint NMSU/UTEP Mathematics & CS Conference

2025

Oral presentation — multimodal time-series forecasting with Reddit sentiment

CERTIFICATIONS

Google Data Analytics Professional Certificate

Coursera · Mar 2026

Retrieval Augmented Generation (RAG)

DeepLearning.AI · 2026

SAP S/4HANA Essential Training · SAP ERP Essential Training

LinkedIn Learning · 2026

HONORS & AWARDS

SKKU President's Award — 1st Place, R&D Innovation (BIOTECH JAMBOREE)

2022

Samsung Foundation Research Fellowship — Competitive research fellowship, SKKU

2022

Graduate Fellowship — Full tuition scholarship, Texas A&M University–Corpus Christi

2024

KDD 2026 Paper Under Review — ACM SIGKDD, top-tier venue in data mining & ML

2026