Yejin Hwang

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Education

Texas A&M University–Corpus Christi — Corpus Christi, TX
Master of Data Science; GPA: 4.0 — *Expected Dec 2025*

- Foundation Models (Time-Series / Language), Time-Series Forecasting

Sungkyunkwan University (SKKU) — Seoul, South Korea
B.A. in Culture & Technology (Data Science); GPA: 3.72 — *Aug 2023*

Technical Skills

Languages: Python, R, SQL
Frameworks: Scikit-learn, TensorFlow, PyTorch, Streamlit
Tools: Git, AWS, MySQL, Tableau, Power BI, Excel, VS Code, Jupyter Notebook, LaTeX
Libraries: Pandas, NumPy, Scipy, Yfinance, Matplotlib, Seaborn, Transformers, Statsmodels

Professional Experience

Research Assistant — Sep 2024 – Present
Texas A&M University-Corpus Christi — *Corpus Christi, TX*

- Led research on time-series forecasting of stock data (TSLA, AAPL, NVDA) using ARIMA, TimesFM, and Chronos-T5 models, targeting short-term (1–7 days) forecasts.
- Engineered key features including lag variables, rolling statistics, and volatility measures to enhance forecast accuracy.
- Improved model performance by 30% MAE reduction, potentially achieving a $2,000 gain from a hypothetical $100,000 portfolio investment.
- Built reproducible Python pipelines integrating yfinance API and PyTorch for data ingestion, model training, and performance reporting to support financial decision-making.
- Presented model comparison and forecasting results at Joint NMSU/UTEP Conference to over 30 attendees, highlighting real-world financial implications.

Data Research Associate — Aug 2022 – Mar 2024
Samsung Medical Center — *Seoul, South Korea*

- Collected and analyzed patient hair data from breast cancer patients using Folliscope 5.0, evaluating chemotherapy-induced alopecia severity with precision.
- Collected, cleaned, and validated CRF data for esophageal, breast, and lung cancer patients, enhancing data quality and analysis readiness by 30%.
- Collaborated with clinicians to deliver reliable datasets supporting ongoing cancer research and improved clinical decision-making.

Data Science Projects

Bayesian Healthcare Risk Modeling (Finance-Focused Capstone) | *R, MCMC(HMC), Regression* — May 2025

- Developed probabilistic regression model for forecasting insurance charges, supporting actuarial cost modeling and financial risk assessment.
- Applied Bayesian hierarchical regression with nonlinear effects (age^2) and BMI×smoker interaction; validated via HMC and WAIC.
- Outperformed frequentist models (RMSE ↓2.7%, MAE ↓2.1%); enabled better uncertainty quantification for data-driven financial policy design.

Presentations & Research

Joint NMSU/UTEP Conference on Math, Computer Science & Computational Sciences — Apr 2025
Presented forecasting model comparison using Chronos-T5 and TimesFM on TSLA data — *Las Cruces, NM*

Coastal Bend Mathematics and Statistics Conference — Apr 2025
Presented research on transformer vs. traditional models for stock price prediction — *Corpus Christi, TX*

Awards

SKKU Dean's Award for Excellence in Global Engagement Mar 2023
Recognized for top-level academic achievement and cross-cultural research initiatives *Seoul, South Korea*