

Yejin Hwang

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EDUCATION

Texas A&M University-Corpus Christi

Master of Data Science; GPA: 4.0

Corpus Christi, TX

Expected Dec 2025

Sungkyunkwan University (SKKU)

B.A. in Culture & Technology (Data Science); GPA: 3.72

Seoul, South Korea

Graduated Aug 2023

EXPERIENCE

Research Assistant

Texas A&M University-Corpus Christi

Sep 2024 – Present

Corpus Christi, TX

- Led research on time-series forecasting of stock data using ARIMA, TimesFM, and Chronos-T5 (TSLA, AAPL, NVDA).
- Improved forecasting accuracy by 30% (MAE reduction) through feature engineering, hyperparameter tuning, and model selection.
- Presented at academic conferences and built reproducible dashboards with Python for results interpretation.

Data Analyst

Samsung Medical Center

Aug 2022 – Mar 2024

Seoul, South Korea

- Developed machine learning models for early disease detection; improved classification accuracy by 15%.
- Managed and analyzed 10K+ patient records through AWS-based ETL pipelines and SQL optimization.
- Collaborated with medical staff and data engineers to deliver real-time analytics for clinical decision-making.

PROJECTS

Stock Forecasting Pipeline with Transformer Models | Python, Hugging Face, TimesFM, Chronos-T5 Apr 2025

- Built a full pipeline to forecast stock prices using yfinance API and applied both classical and transformer models.
- Evaluated short-term forecasts on TSLA, AAPL, and NVDA; proposed model ensemble strategy for robustness.
- Developed reproducible pipelines integrating yfinance API, PyTorch, and visualization dashboards.

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 (age²) 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 Workshop 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

Presented research on transformer vs. traditional models for stock price prediction

Apr 2025

Corpus Christi, TX

AWARDS

SKKU Dean's Award for Excellence in Global Engagement

Recognized for top-level academic achievement and cross-cultural research initiatives

Mar 2023

Seoul, South Korea

TECHNICAL SKILLS

Languages: Python, R, SQL, HTML/CSS, Bash

Frameworks: Flask, scikit-learn, TensorFlow, PyTorch, Streamlit

Tools: Git, Docker, AWS, MySQL, Tableau, Power BI, Excel, VS Code, LaTeX

Libraries: pandas, NumPy, yfinance, matplotlib, seaborn, transformers, statsmodels