Jangwon Seo

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PROFESSIONAL SUMMARY

Statistics student at the University of British Columbia specializing in **data modeling**, **feature engineering**, and **predictive analytics**. Experienced in building data pipelines and applying **machine learning techniques** using **Python**, **SQL**, and **TensorFlow** to turn complex datasets into actionable insights.

EDUCATION

The University of British Columbia   Vancouver, BC
3rd Year, Bachelor of Science in Statistics   *Expected Graduation: 2028*

- **Relevant Coursework:** Data Science, Machine Learning, Probability, Statistical Inference, Regression Analysis, A/B Testing, Databases and Algorithms

PROJECTS

ETF Dividend Forecasting with LSTM Neural Networks🔗

- Built Python ETL pipelines to process 10,000+ financial records from 10+ ETF tickers into feature-ready dataset.
- Performed **exploratory data analysis (EDA)** on dividend time series to identify seasonality and volatility patterns before model training.
- Trained an LSTM model in **TensorFlow/Keras** achieving an **RMSE of 0.047** on test data, improving baseline accuracy.
- Evaluated model performance and visualized predictions versus actual dividends in Tableau.

GAN for Composite Generation with User Feedback🔗

- Applied generative adversarial network (GAN) using **PyTorch** to synthesize facial composites from user input.
- Optimized the latent-space guided by user ratings to iteratively enhance output similarity.
- Visualized model training results and convergence patterns with Matplotlib and NumPy.

PC Gamer Subscription Prediction (Classification)🔗

- Performed feature engineering and model tuning to predict newsletter subscription likelihood.
- Built and validated a KNN classifier in R using cross-validation and accuracy metrics.
- Presented insights through visualizations of player engagement and time distribution.

WORK EXPERIENCE

Contract Web Developer   May 2025 – Current
Remote   *Canada, South Korea*

- Worked with clients to design and deliver **web-based business solutions** powered by data automation and visualization.
- Designed automated ETL pipelines in **Python (Pandas, NumPy, SQL)** to collect and validate geospatial and tabular data from public APIs.
- Engineered feature-ready datasets supporting exploratory data analysis and predictive modeling.
- Built a **WMS-powered map visualization tool** to analyze spatial trends and generate insights for client reports.

Facility Manager   Aug. 2022 – May. 2024
Air Force Academy   *Cheongju, South Korea*

- Automated infrastructure scheduling using Python, improving workflow transparency and documentation.
- Led a team of 8 soldiers, ensuring operational reliability and equitable task allocation.

TECHNICAL SKILLS

Languages: Python, SQL, R, C++, Java
ML & Analytics: TensorFlow, Scikit-learn, Pandas, NumPy, Matplotlib, SQL
Visualization & Tools: Tableau 🔗, Power BI, Django, Git, Azure, Heroku
Statistical Methods: Regression, Hypothesis Testing, A/B Testing, Feature Selection, Cross-Validation

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