

# 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

*3rd Year, Bachelor of Science in Statistics*

Vancouver, BC

*Expected Graduation: 2027*

- **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.

### Coffee Quality & Specialty Classification

- Framed specialty coffee identification as a metadata-only classification problem to avoid information leakage.
- Trained and compared Logistic Regression, Random Forest, and SVC models. Tuned Random Forest to achieve ROC AUC  $\approx 0.71$ .
- Used SHAP to interpret model predictions and identify key drivers of specialty likelihood.

## 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