

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 Analysis and Predictive Modeling

- Built Python ETL pipelines to process 10,000+ financial records from 10+ ETF tickers, transforming raw data into feature-ready time series.
- Trained and tuned an LSTM model in TensorFlow/Keras for dividend forecasting, achieving an RMSE of 0.047 and surpassing baseline regressions.
- Applied feature scaling, windowed sequence generation, and temporal cross-validation to improve model generalization; visualized results with Matplotlib.

GAN for Composite Generation (User Input–Driven)

- Utilized a pre-trained PyTorch GAN to generate facial composites through feedback-guided latent-space optimization.
- Implemented feedback-guided optimization using user ratings to refine outputs toward target images.
- Measured convergence using Euclidean distance in latent space and visualized optimization trajectories with Matplotlib and NumPy.

Coffee Quality and Specialty Classification

- Classified 1,300+ coffee samples using regression and tree-based models, achieving ROC-AUC of 0.71.
- Validated key quality predictors through hypothesis testing and ANOVA.
- Applied feature engineering and SHAP interpretability to identify major contributors to cup quality.

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