Jangwon Seo

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PROFESSIONAL SUMMARY

UBC Statistics student with practical experience in **data preprocessing**, **ETL automation**, and **machine learning model development**. Skilled in building data pipelines and preparing structured datasets for training using **TensorFlow**, **PyTorch**, and **scikit-learn**. Passionate about applying ML to real-world, data-driven systems.

EDUCATION

The University of British Columbia   Vancouver, BC
3rd Year, Bachelor of Science in Statistics   *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 automated ETL pipelines to aggregate and clean financial data for model training and evaluation.
- Implemented an LSTM architecture in **TensorFlow/Keras**, achieving an **RMSE of 0.047**, demonstrating strong predictive accuracy.
- Optimized model performance with the Adam optimizer and evaluated results using scikit-learn metrics.

GAN for Composite Generation with User Feedback 🔗

- Trained a GAN using **PyTorch** to generate facial composites from eyewitness feedback.
- Developed a latent-space optimization loop guided by user ratings to improve output resemblance.
- Visualized model performance through feature distribution plots and generated image comparisons.

Coffee Quality & Specialty Classification 🔗

- Built a reproducible ML pipeline for specialty coffee classification, including preprocessing, model training, and hyperparameter tuning.
- Optimized a Random Forest model with class imbalance handling and custom thresholding.
- Integrated SHAP for model explainability and feature contribution validation.

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.
- Automated **data ingestion and preprocessing pipelines** using Python (Pandas, NumPy) to prepare datasets for ML experimentation.
- Integrated **API-based geospatial data** and engineered features for model training and evaluation.
- Built a **WMS-based visualization interface** for interactive exploration of ML-ready datasets.

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

UBC Science Co-op

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