

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

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 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.

PC Gamer Subscription Prediction (Classification)

- Processed player activity data and tuned a KNN classifier in R for subscription prediction.
- Used cross-validation and accuracy metrics to evaluate model generalization.
- Visualized playtime trends and subscriber behavior patterns using R's ggplot2.

WORK EXPERIENCE

Contract Web Developer

May 2025 – Current

Canada, South Korea

Remote

- 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

Cheongju, South Korea

Air Force Academy

- 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