Jangwon Seo

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PROFESSIONAL SUMMARY

Statistics student at the University of British Columbia with hands-on experience in **data analysis**, **ETL automation**, and **AI-driven prototyping**. Skilled in building **Python-based pipelines**, **machine learning models**, and **interactive dashboards** to generate insights and enhance decision-making.

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

EXPERIENCE

Contract Web Developer   May 2025 – Present
Remote   *Canada, South Korea*
- Worked with clients to design and deliver **web-based business solutions** integrating data analytics, AI capabilities, and interactive visualization.
- Developed and automated **data ingestion pipelines** using Python (Pandas, NumPy, SQL) to collect, transform, and validate geospatial and tabular datasets.
- Integrated **Web Map Service (WMS)** layers into an interactive interface, enabling users to highlight regions, visualize patterns, and export analytical insights.

Facility Manager   Aug. 2022 – May 2024
Air Force Academy   *Cheongju, South Korea*
- Led and mentored an 8-member team while overseeing daily infrastructure operations and documentation.
- Automated scheduling and resource tracking with Python scripts, improving workflow efficiency and transparency.
- Applied constraint validation to ensure fairness and reliability in shift management.

PROJECTS

ETF Dividend Forecasting with LSTM Neural Networks 🔗
- Developed Python ETL pipelines to process 10,000+ financial records from 10+ ETF tickers, preparing structured datasets for model training and reporting.
- Implemented an **LSTM model in TensorFlow/Keras** to forecast dividend payouts, achieving an **RMSE of 0.047** and demonstrating proficiency in time-series modeling.
- Built an interactive Tableau dashboard visualizing historical and predicted dividend trends with dynamic filtering and KPIs.

Generative Adversarial Network for Facial Composite Generation 🔗
- Designed and trained a **Generative Adversarial Network (GAN)** in PyTorch to synthesize facial composites based on eyewitness input, illustrating **Generative AI capability exploration**.
- Implemented a user-driven **latent-space optimization** loop to iteratively enhance resemblance accuracy.
- Visualized model performance and convergence using Matplotlib and NumPy to support interpretability.

PC Gamer Newsletter Subscription Prediction 🔗
- Processed and analyzed player engagement data to predict newsletter subscription likelihood using a KNN classifier in R.
- Conducted **feature selection**, cross-validation, and accuracy assessment to evaluate model reliability.
- Generated insights through data visualizations highlighting player activity patterns and engagement metrics.

TECHNICAL SKILLS

Languages: Python, R, SQL
AI & Data Tools: TensorFlow, PyTorch, Scikit-learn, Pandas, NumPy, Matplotlib, Plotly
Visualization & Platforms: Tableau 🔗, Power BI, Django, MySQL, Azure, Heroku
Statistical Methods: Regression, Hypothesis Testing, Feature Engineering, Cross-Validation, A/B Testing

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