

# JACKY SEO

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<https://joohyeok-seo.github.io/>

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## PROFILE

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As a Statistics graduate with hands-on experience in multivariate analysis and time-series modeling, I am passionate about leveraging advanced statistical techniques to solve complex problems. My technical expertise in Python, R, and SAS, combined with practical project experience, demonstrates my ability to translate theory into impactful solutions.

Currently enrolled in SK Group's AI training program, I am delving into AI applications in statistics, with a particular interest in Bayesian methods and survey sampling. Inspired by Professor Geoffrey Hinton's groundbreaking research, I am eager to pursue a Master's degree at the University of Toronto to deepen my knowledge in AI-driven statistical modeling and prepare for a career in academic research.

## EDUCATION

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### **Bachelor of Science in Statistics**

Simon Fraser University, Burnaby, BC, Canada (June 2024)

- Final Semester GPA: 3.44 (Full-time load)
- Selected Relevant Courses: Applied Multivariate Analysis, Statistical Theory, Applied Time Series Analysis, Statistical Analysis of Sample Surveys, Linear Models in Applied Statistics, Advanced Statistical Computing, Stochastic Processes - Full course list available on LinkedIn: [LinkedIn Profile](#)

## PROJECTS

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### **Canadian Gas Price Analysis and Prediction (December 2024)**

- Analyzed Canadian gas prices using statistical methods, clustering (K-means), and time-series forecasting (SARIMA). Built a recommendation system to optimize fuel selection. Results provided insights into price trends and regional differences, supporting data-driven decision-making.  
[GitHub Repository](#)

### **Credit Card Default Prediction (November 2024)**

- Built a machine learning model to predict credit card defaults using classification techniques such as Logistic Regression and Random Forest. Achieved 85% accuracy and 0.80 recall, highlighting key factors influencing default risk.  
[GitHub Repository](#)

### **Laptop Price Determination Analysis (March ~ April 2024)**

- Analyzed over 1,000 laptop entries to determine pricing factors using R. Applied multiple linear regression and ANOVA, explaining 82% of price variance. Key insights supported data-driven pricing strategies for electronic goods.

[GitHub Repository](#)

### **Dining Preferences Analysis at SFU (February ~ April 2024)**

- Conducted statistical analysis of dining preferences among 54 SFU students. Used Python (Pandas, Matplotlib) to identify trends and preferences, leading to a 15% increase in student engagement. Findings optimized dining service strategies and improved satisfaction.

[GitHub Repository](#)

## **EXPERIENCES**

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### **SK Group AI and Data Science Intensive Training Program (October 2024 ~ April 2025)**

- Completed a competitive AI and data science training program, gaining expertise in Python, predictive modeling, and multimodal data integration, with a focus on natural language processing (NLP), fine-tuning large language models (LLMs), and developing cloud-based applications using AWS. For details, visit my [LinkedIn Profile](#).

### **Hanwha – Data Analyst (February ~ August 2023)**

- Managed and analyzed customer data using Python, increasing engagement by 10% (~500 active users monthly), automating workflows to improve efficiency by 20% and reducing manual work by 2 hours daily, contributing to a 15% sales increase.

For details, visit my [LinkedIn Profile](#).

## **SKILLS**

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**Data Analysis & Statistical Tools:** Python, R, SQL, SAS, RStudio, Jupyter, Tableau, ggplot2, plotly, Pandas, Cloud Computing (AWS/GCP), HeidiSQL

**Technologies:** Machine Learning, Deep Learning, NLP, Multimodal Data Processing, AI

**Additional Skills:** Database Management, Data Analysis, Statistical Software Proficiency

## **VOLUNTEERS**

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### **Potters Place Mission - Community Service Assistant (September 2017 ~ December 2019)**

- Organized outreach programs and improved resource distribution efficiency to support Indigenous communities. - For details, visit my [LinkedIn Profile](#).

### **Global Give Society – Volunteer Tutor (January ~ October 2016)**

- Designed tailored lesson plans and mentored underprivileged students, enhancing their mathematics performance. - For details, visit my [LinkedIn Profile](#).