

# Hwimin Park

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## PROFILE

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Aspiring data scientist with expertise in statistical modelling, machine learning, and data visualization. Passionate about solving real-world challenges in predictive analytics, financial modelling, and AI for social impact. Dedicated to ethical technology, continuous learning, and driving innovation to advance data science for meaningful change.

## EDUCATION

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### University of Calgary

Calgary, AB

*Bachelor of Arts in Economics, Minor in Data Science GPA: 3.96/4.0*

*Sep. 2021 – Present*

### Relevant Coursework

- **Statistical Methods:** Applied probability theory and inferential statistics in real-world projects
- **Data Processing and Storage:** Focused on data management, SQL, and big data processing
- **Econometrics:** Developed statistical models to analyze and interpret economic data
- **Time Series Analysis:** Forecasted trends and patterns in temporal data

## PROJECTS

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### Health Insurance Claim Prediction | *Python, Scikit-learn, Pandas*

- Developed a regression model in Python to predict health insurance claims based on customer demographics and health data
- Applied data preprocessing techniques and feature selection to improve model performance
- Provided actionable insights for refining premium-setting strategies and risk assessments

### Predicting Individual Savings | *Python, Scikit-learn, Pandas, Seaborn*

- Built a Random Forest model to predict savings potential using a dataset of 22,000+ financial records
- Conducted cluster analysis and exploratory data analysis to uncover insights into savings behavior
- Results contributed to identifying key factors (e.g., age, account balances) influencing savings patterns

### Credit Card Offer Acceptance Prediction | *Python, Scikit-learn, Pandas*

- Developed a classification model in Python to predict customer acceptance of credit card offers
- Employed cross-validation and hyperparameter tuning techniques to enhance model accuracy
- Identified key factors driving acceptance, which could inform targeted marketing strategies

## SKILLS

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**Data Modelling & Machine Learning:** Expertise in developing predictive models and handling large datasets using Python, Scikit-learn, and Pandas.

**Programming:** Advanced skills in Python, R, and SQL for comprehensive data manipulation, analysis, and database management.

**Statistical Analysis:** Proficient in econometrics, time series analysis, and applying statistical methods to economic data.

**Data Visualization:** Skilled in creating impactful visualizations with Tableau, Seaborn, and Matplotlib.

**Feature Engineering & Model Validation:** Experienced in feature selection and cross-validation to optimize model performance.

**Optimization & Validation:** Experienced in hyperparameter tuning, cross-validation, and feature engineering to enhance model performance.

## TECHNICAL SKILLS

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**Languages:** Python, SQL, R, LaTeX

**Libraries/Tools:** Pandas, NumPy, Matplotlib, Scikit-learn, Seaborn, Tensorflow, Statsmodels, PySpark

**Visualization Tools:** Tableau, Power BI, Seaborn, Matplotlib

**Methodologies:** End-to-end machine learning pipelines, predictive modelling, natural language processing, reinforcement learning

**Core Expertise:** Data modelling, feature engineering, deep learning, machine learning, econometrics

**Version Control:** Git, GitHub

## INTERESTS

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**Technology Enthusiast:** Passionate about exploring advancements in both hardware and software, with a particular focus on open-source projects and Linux systems.

**Privacy Advocate:** Committed to understanding and promoting digital privacy and ethical technology practices.

**Personal Growth:** Enjoy reading, learning a new language, and pursuing fitness as part of a balanced lifestyle.

## AWARDS

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**Jason Lang Scholarship** 2023

- Awarded \$1000 for maintaining a minimum GPA of 3.2.

**Joyce Foundation Jack Perraton and Ed & Lois Marshall Bursary** 2021-2023

- Awarded \$5000 for participation in the Emerging Leaders Program and for continued leadership and mentorship relationships.

**Louise McKinney Scholarship** 2022

- Awarded \$2500 for maintaining a minimum GPA of 3.2.

**President's Admission Scholarship** 2021

- Awarded \$5000 for achieving a high school average of 95% or higher.

## ADDITIONAL EXPERIENCE

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**Restaurant Server** Aug 2022 – May 2024

*Baekjeong Korean BBQ House* Calgary, AB

- Provided exceptional customer service in a fast-paced Korean BBQ environment, showcasing adaptability and interpersonal skills
- Managed orders efficiently, ensuring a seamless and positive dining experience for every customer

**Volunteer Tax Program** Feb 2023 – Apr 2023

*University of Calgary* Calgary, AB

- Assisted students and staff with tax preparation, demonstrating meticulous attention to detail and excellent communication skills
- Collaborated with a diverse team to ensure accurate tax returns and provide valuable assistance to the community

**Climbing Volunteer** Sep 2021 – Jun 2022

*YMCA* Calgary, AB

- Assisted climbers with clipping into safety cables and supported the instructor to ensure a smooth and secure climbing experience
- Monitored climbing areas and enforced safety protocols, helping maintain a hazard-free environment for participants

**Retail Cashier Volunteer** Aug 2019 – Aug 2021

*Red Thread Gift Shop* Calgary, AB

- Managed merchandise restocking, arrangement, and organization
- Assisted customers in their purchases, offering guidance on product selection and location