# **Seokhyun Yoon**

Coquitlam, BC | +17789278105 | 96ssamba@gmail.com |[LinkedIn](https://www.linkedin.com/in/seokhyun-yoon-241a61104/'s%20LinkedIn) | [Portfolio](https://github.com/SeanYooon/Data-Analysis-Portfolio-)

**Education**

|  |  |
| --- | --- |
| Simon Fraser University | Burnaby, BC |
| Bachelor of Science - **Statistics** | **May 2018 - Dec 2023** |

**Skills**

|  |  |
| --- | --- |
| Technical |  |
| * R, Python, SAS, SQL, Tableau * Microsoft Word, Excel, Power point |

|  |  |
| --- | --- |
| Statistical |  |
| * Familiar with linear, logistic regression, SVM, Xgboost, random forest, PCA. * Data cleaning, data wrangling, data visualization, data analysis, correlation matrix |

Transferable

* Strong analytical and problem-solving skills.
* Collaborating teamwork is demonstrated through familiarity with military protocol.
* Organizational skills developed through various work settings including military operations.
* Native Korean and fluent in English.
* Attention to detail.

**Relevant coursework**

|  |  |  |
| --- | --- | --- |
| **Statistical Learning and prediction – Building Predictive model** |  | |
| * Completed rigorous coursework in statistical learning and prediction, applying various methods to build predictive models on training data. * Analyzed and trained datasets with 15 variables, including hidden names, using R. * Developed predictive models utilizing a diverse range of machine learning algorithms, including partial least square, least square, random forest, step function, neural nets, regression tree, bootstrap aggregation, and boosting methods comparing each method with RMSE. | | **Dec 2022** |

|  |  |
| --- | --- |
| **Time Series Analysis – Rainfall predicative modeling** |  |
| * Explored precipitation patterns in Perth, Australia, using advanced statistical techniques for time-dependent data analysis. * Identified 12-month seasonality through scatter plot and applied Box-Jenkins methodology for model selection. * Employed dynamic modeling to enhance model robustness by addressing correlated residuals. * Utilized optimal model for rainfall forecasting, establishing 95% prediction limits, and validating against actual Perth Airport measurements, affirming reliability in capturing seasonality and prediction. | **Dec 2023** |

|  |  |
| --- | --- |
| **Learning Big Data – Predicting Housing price** |  |
| * Developed predictive housing price model in private Kaggle competition using ML algorithms and data visualization. * Conducted exploratory data analysis to optimize model efficiency by identifying key variables. * Trained and tuned various ML models(linear regression, random forest, boosting) to find optimal algorithm and significantly improve RMSE score. | **Oct 2023** |
| **SpaceX Falcon 9 first stage Landing Prediction using Python** |  |
| * Developed machine learning algorithms to predict successful landing of Falcon 9 first stage, contributing to cost-effective space missions. * Conducted comprehensive data analysis and visualization using Python, pandas, NumPy, Seaborn, and Matplotlib. * Utilized data cleaning, wrangling, and correlation matrix techniques to preprocess data for model development. * Integrated request API and BS4 for data acquisition and utilized Folium for interactive map visualization. * Produced a robust predictive model with accurate forecasting capabilities, enhancing decision-making processes for space exploration | **Dec 2023** |

**Certificate**

|  |  |
| --- | --- |
| IBM Data Science – Coursera | **Dec 2023** |

**Work Experience**

|  |  |
| --- | --- |
| **Korean Army** | Sokcho, Korea |
| Soldier | **Jul 2019 – Feb 2021** |

* Paying attention to detail, contributed to the effective operations of the army by accurately managing inventory placing correct orders, and distributing to over 300 personnel
* Collaborated with military personnel, personnel, and superiors to achieve shared goals, contributing to successful training operations.
* Demonstrated effective teamwork and clear communication to ensure mission success in a team-oriented environment.
* Trained and mentored new military personnel on protocols and procedures, fostering a collaborative learning environment for quick integration and success.
* Contributed to cross-functional teams by identifying and implementing process improvements, streamlining workflows, and increasing overall efficiency in military operations.

|  |  |
| --- | --- |
|  | Vancouver, BC |
| **Café Artigiano** | **Feb 2022 – Mar 2023** |

Barista

* Demonstrated excellent time management skills by efficiently completing tasks such as cleaning and restocking supplies during slow periods to ensure that the café was prepared for peak hours.
* Communicated effectively with team members and customers, demonstrating strong interpersonal skills and the ability to adapt communication style to meet diverse individuals.
* Paying attention to detail providing precisely and accurately prepared food and beverage.