

Seokhyun Yoon

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EDUCATION

Simon Fraser University
Bachelor of Science - **Statistics**

Burnaby, BC
May 2018 - Dec 2023

SKILLS

Technical

- R, Python, SAS, SQL, Tableau, Power BI
- 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

Dec 2022

- 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.

Time Series Analysis – Rainfall predicative modeling

Dec 2023

- 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.

Learning Big Data – Predicting Housing price

Oct 2023

- 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.

SpaceX Falcon 9 first stage Landing Prediction using Python

Dec 2023

- 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

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.