Seokhyun (Sean) Yoon

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PROFILE

Passionate Statistics graduate with strong analytical skills and hands-on experience in machine learning, data visualization, and statistical modeling. Proficient in Python, R, SQL, and Power BI, with a proven ability to develop predictive models and communicate insights effectively. Committed to delivering data-driven solutions and contributing to collaborative, results-oriented teams.

TECHNICAL SKILLS

- **Languages & Tools**: Python (Pandas, NumPy, Seaborn, Matplotlib, Scikit-learn, TensorFlow), R (Shiny), SQL, Excel, Git, SAS, VS Code

- **Data Visualization**: Tableau, Power BI, Excel, Folium, ArcGis

- **Machine Learning**: Linear/Logistic Regression, Random Forest, XGBoost, SVM, Neural Networks, Time Series (ARIMA), PCA

- **Other skills**: Data Mining, Data Wrangling, EDA, API integration, Web Scraping, Data analytics, Data Models

- **Soft Skills**: Communication, Teamwork, Attention to Detail, Adaptability, Problem Solving, interpersonal skills

CERTIFICATIONS

- IBM Data Science Professional Certificate – Coursera

- Deep Learning Specialization – DeepLearning AI

- SQL Essential Training – LinkedIn Learning

DATA PROJECTS

Rainfall Forecasting – Time Series Analysis   Sep 2023 – 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

Housing Price Prediction – Machine Learning & EDA   Jun 2023 – Sep 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, such as linear regression, random forest, and boosting, to find optimal algorithms and significantly improve RMSE score

SpaceX Falcon 9 Landing Prediction – Classification Project   May 2024 – Aug 2024

- Developed classification models to predict Falcon 9 first stage landing success.

- Used Python libraries (pandas, Seaborn, Matplotlib) for data preprocessing and visualization.

- Integrated API (requests) and BeautifulSoup for external data gathering; visualized results using Folium.

WORK EXPERIENCE

Barista, Café Artigiano – Vancouver, BC, Canada   Feb 2022 – Mar 2023

- Delivered high-quality customer service and supported daily operations.

- Managed inventory, restocking, and café readiness during peak and off-peak hours.

- Built strong interpersonal skills by adapting to customer preferences and team coordination.

EDUCATION

Simon Fraser University – Bachelor of Science, **Statistics**   May 2018 – Dec 2023