Leesa (Se Eun) Park

Tacoma, WA | Fluent in English and Korean | https://leesapark.github.io | LKIM89@LIVE.COM | (253)753-4532

OBJECTIVE

Passionate data scientist eager to leverage advanced data analysis, machine learning, statistical modeling skills, and data visualization to drive product enhancements in business processes and product experiences.

TECHNICAL SKILLS

- **Programming & Tools**: Python, R, SQL, NoSQL, MATLAB, SAS, Scikit-learn, TensorFlow, PyTorch, Java
- **Data Science**: machine learning, Bayesian inference, A/B testing, predictive modeling
- **Data Analysis & Visualization**: Tableau, PowerBI, Excel, Data wrangling, ETL, EDA
- **Big Data & Databases**: Relational and NoSQL databases, data pipelines, workflow automation

EDUCATION

Johns Hopkins Whiting School of Engineering
Master of Science, Data Science | August 2022—Present
GPA: 3.75

- **Data Science: Modeling and Analytics**
  - Developed expertise in the design and implementation of sophisticated data models integrating principles from AI, machine learning, and statistics. Proficient in identifying patterns and relationships within diverse data sets, employing intelligent algorithms, machine learning techniques, and statistical methods to create expressive models that reveal intrinsic patterns and insights.
  - Skilled in the comprehensive modeling process, from framework design to model evaluation and interpretation. Demonstrated ability to select appropriate model types, apply Python-based frameworks effectively, and represent outputs in an understandable and explainable manner.
- **Bayesian Statistics**
  - Applied Bayesian inference techniques to estimate population parameters, evaluate estimation uncertainty, and solve decision theory problems by using the application of prior/posterior distributions, conjugate pairs, Bayesian prediction, and Monte Carlo and Gibbs sampling methods for real-world data analysis.
- **Data Engineering Principles and Practice**
  - Utilized relational and NoSQL databases for data collection, transformation, and modeling for various data formats.
  - Utilized pipelines and workflow automation to move data into warehouses and data lakes with the conscious of data security, governance, and compliance.
- **Theory of Machine Learning**
  - Explored machine learning algorithms and mathematical theories of linear models (regression and classification), anomaly detectors, tree-based methods, regularization, fully

connected neural networks and convolutional neural networks using TensorFlow and PyTorch, and model assessment using Python

- **Data Visualization**
  - Used Tableau, Microsoft PowerBI, Paraview, Python, and Jupyter Lab to create interactive visualizations for large datasets

MITx edX Introduction to Computer Science and Programming Using Python, Certification | January—March 2022

Tacoma Community College
March—December 2021
GPA: 3.43

- Java Programming for Engineers and Scientists I
- Java Programming for Engineers and Scientists II
- Calculus III
- Linear Algebra

Bastyr University
Bachelor of Science, Integrated Human Biology | 2012—2014
GPA: 3.69

PROFESSIONAL EXPERIENCE

Fred Hutchinson Cancer Research Center, Seattle, WA, Aug 2017 – Apr 2018
Research Technician II – Kiem lab

- Analyzed complex datasets to generate insights for HIV research, managing experimental data and protocols.

Center for Infectious Disease Research, Seattle, WA, Feb 2015 – Feb 2017
Research Technician II – Horton lab

- Led HIV research projects, employing statistical and functional assays to derive insights from large datasets.
- Managed lab operations, ensuring data quality, compliance, and team training.
- Was an editorial board member to bridge the gap between scientists, administrations, and community.

Publications/Presentations:

- Journal of Immunology. *Kinetics of Myeloid-Derived Suppressor Cell Frequency and Function during Simian Immunodeficiency Virus Infection, Combination Antiretroviral Therapy, and Treatment Interruption*. January 2017
- STD & AIDS Symposium, CFAR, November 2016
  - Presented primary data on the differential suppressive effects of granulocytic myeloid-derived suppressor cells and neutrophils on antigen responses in HIV+ individuals
- Research Symposium, Bastyr University, June 2013 & 2014
  - Presented a secondary analysis of the impact of triglyceride when weight changes
  - Presented primary data on the antifungal effect of Allium sativum extracts on Trichophyton equinum