

Keaton Spiller

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Education

Portland State University

Sep. 2019 – Aug. 2022

Bachelor of Science in Data Science

Portland, Oregon

Cumulative GPA 3.74 with Latin Honors

Technical Skills

Languages: Python (Advanced), R (Intermediate), SQL (Intermediate), C++ (proficient), C (proficient), Java (proficient)

Developer Tools: VS Code, RStudio, Anaconda, Jupyter Notebook, Google Collab, Docker, Tableau, GitHub

Operating Systems: Windows, MacOS, Linux

Certifications

Coursera: Google Data Analytics: [Foundations: Data, Data, Everywhere](#) | [Ask Questions to Make Data-Driven Decisions](#)

HackerRank: [Problem Solving \(Basic\)](#) | [Python \(Basic\)](#) | [SQL \(Basic\)](#)

Work Experience

Sensoray

Oct. 2020 – Jun. 2022

Electronics Production Assistant

Tigard, Oregon

- Adapted analytic and quantitative ideas to reduce risk, and optimize available resources
- Utilized Sage, an inventory management software to transfer, assign inventory, enter, complete work requests, receive purchase orders from components or assembled boards, and ship products globally
- Prioritized available finished product and short electronic components to assemble, test, and complete customer orders
- Collaborated with technicians and engineers to problem solve, meet customer needs, and fulfill shipment deadlines

Projects

Data Science Consulting – [Cyanobacteria](#) | R Code, R Markdown, Statistics, ML/AI

Jun. 2022

- Curated data, performed exploratory analysis, and identified correlations between cyanobacteria producing toxins.
- Visualized time series significance from unsupervised K-Means clusters, and toxin concentrations predicted across Linear Regression, Random Forest, Lasso, and Multi-Layer Neural Networks.

Model Building – [Modern Regression Analysis](#) & [Statistical Learning](#) | R Code, R Markdown, Statistics, ML/AI

Dec. 2021

- Analyzed qualitative and quantitative variables with statistics and modeling techniques to explore, predict and classify data about unknown characteristics of glass and financial rating
- Applied statistical models including Linear, Logistic, K-Means Nearest Neighbors, Linear Discriminate Analysis, Quadratic Discriminate Analysis, Lasso, and Ridge Regression

Adversarial Minimax & RL Neural Network - [Othello](#) | Python, Jupyter, Matplotlib, ML/AI, NumPy, scikit-learn

Jun. 2022

- Engineered an adversarial board game of Othello using a modified minimax algorithm simulated to play 50 moves ahead for three heuristics, and tested against a RL Neural network trained for 10,000 epochs

Unsupervised Learning - [K Means & Fuzzy C Means Clustering](#) | Python, Jupyter, ML/AI, NumPy, Matplotlib

Mar. 2022

- Developed K-Means and Fuzzy C Means clustering from a set of 500 data points simulated from 3 Gaussians

Reinforcement Learning – [Robby The Robot Q learning](#) | Python, Jupyter, ML/AI, NumPy, Matplotlib, scikit-learn

May. 2022

- Designing a RL agent using Q Learning and Greedy action selection to correctly pick up cans in an 8x8 grid

Multi-Layer Neural Network - [MNIST](#) | Python, Jupyter, ML/AI, NumPy, matplotlib, Pandas

Jan. 2022

- Handwritten digit recognition classifier using back propagation, stochastic gradient descent, and sigmoid activation

Naïve Bayes Classifier - [Email Spam Filter](#) | Python, Jupyter, ML/AI, NumPy, Matplotlib, Pandas

Feb. 2022

- Classifying an email as spam or non-spam using Gaussian Naïve Bayes probability, given labeled emails