


Laura Funderburk, Data Scientist

 <https://lfunderburk.github.io/>

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 (604) 418 - 3575

Professional Summary:

Results-driven Data Scientist with a strong background in applied math, statistics, and machine learning, dedicated to leveraging data-driven insights to impact equitable and inclusive education. Adept at data storytelling, visualization, and translating complex concepts for non-technical audiences. Experienced in collaborating with cross-functional teams, managing projects, and fostering partnerships to drive meaningful change.

Work Experience

Data Scientist, Seaspan Ship Management, Feb 2022 - March 2023

- Applied statistical and machine learning techniques to analyze global vessel operations data, driving strategic decision-making for cross-functional teams.
- Created data visualizations to effectively communicate insights on trends and anomalies to non-technical stakeholders.
- Assisted in the management of key projects and programs, collaborating with global partners (MRV DCS and fuel consumption compliance).
- Enabled production-ready and secure deployment of data pipelines and dashboards.

Data Scientist, Cybera, Feb 2021 - Feb 2022


- Developed data analysis and visualization tools to improve communication of technical topics to non-technical learners, showcasing strong data storytelling skills.
- Collaborated on machine learning projects for startups, using applied math, statistics, and ML techniques for real-world applications.
- Established partnerships with external stakeholders (university representatives in British Columbia, Alberta and Toronto, Tla'amin Nation) , demonstrating strong business intuition and judgment in identifying opportunities for collaboration.

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Data Science Intern, Cybera, Dec 2019 - Jan 2021

- Developed and delivered instructional material on data science topics across various formats.
- Established brand recognition through talks, workshops, and public resources.
- Utilized strong SQL, R, and Python skills to create data-driven content for instructional purposes, emphasizing your ability to manipulate data effectively.
- Led the creation of lesson plans and interactive learning activities along with partnership with Coast Salish First Nation

Education

- Certificate: Machine Learning Engineering, University of California San Diego (2023)
Capstone project: analyzing consumer trends and characteristics of electric, fuel only and hybrid vehicles.
This project uses supervised machine learning to predict the CO2 score of a vehicle based on its emissions, and then does unsupervised learning to cluster the vehicles. Time series analysis data on vehicle purchases is included.
- BSc Mathematics, Simon Fraser University (2019)
Thesis: Population structure of clams in BC
This project used statistical analysis to compare the same species of clam in three different locations in BC, to understand whether there were statistically significant differences in their genes. This thesis helped determine patterns of reproduction across different locations in BC.

Skills and Languages

- Python (requests, json, pandas, seaborn, matplotlib, plotly, dash, sklearn, keras, Flask)
- Docker, Bash, SQL (Microsoft SQL Server, SQLite, DuckDB, sqlalchemy)
- Git and Github
- Supervised learning (linear and logistic regression, decision trees, random forest walk, time series analysis)
- Unsupervised learning (clustering, dimensionality reduction)