Arvid Levander

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About me

Data Scientist experienced at transforming complex data into actionable insights to drive business decisions. Recently completed a master's in Applied and Computational Mathematics with a GPA of 3.9. Proficient in Python, R, SQL, and experienced with frameworks such as PyTorch and TensorFlow. Demonstrated ability to collaborate with engineers, business development, and marketing teams to develop data-driven products for specific business applications.

Experience

Data Scientist, Logtrade – Palo Alto, CA — Feb 2022 – Aug 2023

- Developed an ARIMA based algorithm to detect malfunctioning sensors which provided better visibility of products in the transportation network and allowing customers to make business decisions around when their packages are arriving.
- Created a clustering algorithm to match package sensors to a truck allowing the potential of 80% battery energy savings by turning off the GPS of those sensors.
- Through networking and market research identified an opportunity for an unified digital logistics platform specializing in multi-partner logistic chains with multi-million dollar annual potential. Collaborated with business leaders to develop and present a comprehensive business plan to the entire company.
- Developed a go-to-market strategy for an unified digital logistics platform through comprehensive market analysis, identifying potential partners, target customers, and key relationships among market actors.

Projects

Traffic Sign Classifications — Repository

- Developed a model that could classify traffic signs. Model development was done using JAX and FLAX to utilize my local machine's GPU in training but also to be more explicit in training.
- Tools Used: Python, JAX, FLAX, OpenCV

Paddy Disease Classifier — Notebook

- Created an paddy disease classifier for a Kaggle competition. Using techniques like tfrecords transformations for big data handling, image augmentation, CNN, and transfer learning I was able to get 90% validation accuracy. However, the primary goal was for the notebook to be educational which it received a bronze medal for by the community.
- Tools Used: Python, Pandas, Tensorflow, Sklearn, Albumentations

Heart Disease Prediction — Notebook

- Working with tabular data I created a model that predicted if a person had heart disease or not. Using Cross validation to tune the hyperparameters of XGBoost and feature engineering techniques like clustering to improve performance.
- Tools Used: Python, Pandas, Numpy, XGBoost, Matplotlib, Sklearn

Education

University of Washington, MS in Applied and Computational Mathematics, GPA 3.9 — Sept 2023 – June 2024
University of California, Los Angeles, BS in Mathematics — Sept 2019 – Sept 2021
Foothill College, AS in Mathematics — Sept 2017 – Sept 2019

Skills

Languages: Python, R, SQL , C++, Tableau

Frameworks: PyTorch, Tensorflow, JAX, LangChain, Sklearn, XGBoost

Statistical Techniques: Regression models, clustering models, kernel methods, time series analysis, A/B testing