Dominik Huffield

Summary

Software research, development, and engineering professional. Skilled in utilizing machine learning to harvest valuable insights from large and complex data sets. Collaborative and creative problem solver committed to team success.

Experience

Full Stack Data Scientist | *Cybraics*

May 2022-Jul 2023 · 1 year 3 months

Environment*:   Python, Redis, Kafka, KTable, Faust, Log Stream, Elastic, Stochastic, Asynchronous*

- **Developed Custom Loss Functions for Anomaly Detection** to model user/network behavior and improving product stability and performance.

- **End-to-End Execution of R&D Projects** to detect cyber-attacks.

- **Optimized Data Simulation process using generative models** to streamline development environment leading to a net reduction of $1 million in annual cloud expenses.

- **Design and Engineering for Scalable Data Pipeline** to increase supportable client base by 100x and enabling company to initiate aggressive sales campaign.

- **Research, Development and Productionize** a federated capable deep learning model to identify phishing domains.

- **Code Modularization and Documentation Specialist** promoting product growth and improving architectural flexibility by accelerating code debugging and maintenance.

- **Strategic Hiring Campaign Leader,** promoting the role across personal networks and orchestrating a comprehensive technical and oral interview process for shortlisted candidates.

- **Guidance and Mentorship of Junior Members,** offering comprehensive training ensuring seamless integration into the team and fostering a culture of continuous learning.

Cloud Engineer | *HCL Technologies*

Oct 2021-Apr 2022 · 7 months

Environment: *Google Cloud, AWS, Docker, Kubernetes*

- Member of a team migrating monolithic applications to the cloud for businesses inside Google's ecosystem. Project scope included transfer of on-premise legacy software to modern architecture, improved business flexibility, and increased revenue.

Backend Data Developer | *Prismatik*

May 2021-Sep 2021 · 5 months

Environment: Python, Redis, Tornado, Asynchronous, Time Series Forecasting

- Worked closely with UI developer to gather user data and model customer behavior with respect to customer engagement and sales conversion probability. Expanded understanding of product deficiency and worked with management team to rescope engineering effort. Developed plans for product updates and A/B testing for measuring improvements resulting from project.

Education

Associate Cloud Engineer | Certification | *Google Cloud*
DOE Mar 2024

Business and Economic Analytics | B.S. | *Boise State University*
Class of Spring 2020

Skills

Languages:	*Python, Java, Swift*
Statistics:	*HT, CI, OLS, PCA, t-SNE, SGD, MLE, KLD, **Econometrics,** Bayes, Prob. & Stochastics*
Mathematics:	*Calculus III, Discrete, **Linear Algebra**, Signals, Transforms, Algorithms, **Gamma**, Information & Graph Theory*
Machine Learning:	*Activation, Loss, Optimizers, Regularization, Tuning, Transferring, **Probabilistic Models***
NN Architecture:	*RNN, CNN, LSTM, Bidirectional, ConvND, ConvLSTM, **TFT, VAE***
Paradigms:	*Forecasting - (**Hierarchical Panels**), Processing - (**Distributed Streams**)*
Data Storage:	***Redis**, SQL, NoSQL, MongoDB, **Kafka** (KTable, KStream)*
Cloud:	***GCP** (Core Infrastructures), **AWS** (Sagemaker, EC2, ECS), **Docker,** Digital Ocean*
Libraries:	*Collections, Numpy, Pandas, SciPy, Scikit-Learn, Faust, Librosa, **TensorFlow** (Keras, Image, Audio), **PyTorch** (Lightning, Forecasting)*