Randall Pulido

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Education

California Institute of Technology – BS, Computer Science 2022

Work Experience

Lyft Inc. – Machine Learning Software Engineer, Price Optimization Team 10/2022 - 4/2023

Active developer on estimated $20 million revenue project for rideshare pricing.

- Built dashboards and alerts to support the maintenance and observability of team's price adjustment model, thus saving engineering time/resources and allowing insights into key model and error metrics.
- Conceived and implemented a novel performance drift detection and retraining procedure.
- Collaborated with a cross-functional team to design a bias-learning model estimated to reduce overall error of the primary price adjustment model by 3-5%.
- Processed, cleaned, interpreted, and utilized months of incoming market data and error metric data.
- Performed on-call responsibilities such as responding to / resolving failures.

Edammo Inc. – Machine Learning Software Engineer Intern 5/2021 - 1/2022

Explored, implemented, tested, and integrated novel approaches to improve the company's ML SaaS models.

- Implemented a validation technique for model selection / ensembling - reduced overall error by 4%.
- Developed a dimensionality reduction algorithm - 100% faster than standard methods.
- Implemented an anomaly detection and replacement algorithm - reduced overall error by 2%.

Project Experience

Song Lyrics Generator 9/2023 -

- Retrieved and preprocessed top music artist lyric data from the LyricsGenius API to train and optimize an LSTM network that generates unique song lyrics.

Predicting Future COVID-19 Vaccination Rates in U.S. Counties 3/2021 - 6/2021

- Achieved > 98% predictive accuracy by testing numerous forecasting models and model configurations trained on regional demographic data from government and health organization websites.
- Designed a more equitable distribution of COVID-19 vaccines using feature importance analysis.

Exploring Noise Propagation of Adversarial Images 4/2021 - 6/2021

- Quantified image similarity throughout evaluation by three adversarially-trained CNNs with differing denoising architectures to further our understanding of noise propagation of adversarial images.

Skills

Languages: Python, SQL, C, C++, Java, R, OCaml, Haskell, MATLAB

Tools: Scikit-Learn, Numpy, Pandas, PyTorch, TensorFlow, Keras, XGBoost, Git, Grafana, Kibana, Hive, MySQL, Kubernetes, Airflow, Jira, PagerDuty, AWS

Technical Skills: Programming Methods, Data Structures, Algorithms, Machine Learning Methods, Learning Systems, Data Mining, Databases, Statistics, Probability Models, Computing Systems, Distributed Computing