Randall Pulido

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Education

California Institute of Technology – B.S. Computer Science   9/2018 - 6/2022

Work Experience

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

One of two active developers on an estimated $20 million revenue project for rideshare pricing.
- Built dashboards and alerts to support the maintenance and observability of the company's price adjustment model, saving engineering time/resources and allowing insights into critical metrics.
- Implemented a novel performance drift detection and retraining procedure.
- Collaborated with a cross-functional team to design a bias-learning model estimated to reduce the overall error of the primary price adjustment model by 3-5%.
- Interpreted, preprocessed, and utilized months of incoming market and error metric data.

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

Explored novel approaches to improve the company's classification and regression models.
- Implemented a validation technique for model ensembling that reduced overall error by 4%.
- Developed a dimensionality reduction algorithm that is 100% faster than standard methods.
- Integrated an anomaly detection and replacement algorithm that reduced overall error by 2%.

Projects

Song Lyrics Generator   9/2023 - Present
- Inspired personal songwriting by optimizing an LSTM, trained on top music artist lyric data retrieved via the LyricsGenius API, that generates unique song lyrics.

Predicting Future COVID-19 Vaccination Rates in U.S. Counties   3/2021 - 6/2021
- Designed a more equitable distribution of COVID-19 vaccines by analyzing the feature importance of regional demographic data used to train forecasting models to achieve >98% accuracy.

Exploring Noise Propagation of Adversarial Images   4/2021 - 6/2021
- Collaborated on a paper detailing how adversarial perturbations propagate through robust denoising systems by tracking the dissimilarity between the adversarial and original feature maps.

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