Randall Pulido

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WORK EXPERIENCE

Lyft, Inc.   Oct. 2022 – Apr. 2023
Machine Learning Software Engineer, Price Optimization Team   *Remote*
- Played a pivotal role as one of two developers in a high-impact project estimated to generate $20 million in revenue through the optimization of reinforcement learning strategies within rideshare pricing's price adjustment framework.
- Collaborated with a cross-functional team in the end-to-end conceptualization and design of a bias-learning neural network, aiming to reduce the overall error of its target price adjustment model by 3-5%.
- Engineered dashboards and alert systems to comprehensively monitor 25% of the functionality within the live production system of the price adjustment framework, enabling swift issue diagnosis and providing critical insights.
- Pioneered a novel performance drift detection and retraining procedure, setting a benchmark for future solutions in efficiency and adaptability for the subject model and beyond.
- Interpreted, preprocessed, and strategically leveraged 4 months of incoming market and error metric data, contributing to informed decision-making and continuous model improvement.

Edammo, Inc.   May 2021 – Jan. 2022
Machine Learning Software Engineer Intern   *Remote*
- Spearheaded the exploration, implementation, testing, and seamless integration of novel algorithmic approaches that elevated the performance of classification and regression algorithms tailored for specific MLaaS applications.
- Implemented a robust model ensembling/validation technique, achieving a 4% reduction in overall error.
- Developed a dimensionality reduction algorithm that exhibited a 100% speed improvement over standard methods.
- Integrated an anomaly detection and replacement algorithm, contributing to a 2% reduction in overall error.

Online Tutor   Jun. 2023 – Present
- Tutored high school and college students in computer science, mathematics, and physics. Designed lesson plans, and provided notes and practice problems to foster their understanding.

Paleomagnetic Lab, Caltech   Jun. 2019 – Sep. 2019
Summer Undergraduate Research Fellow   *Pasadena, CA*
- Generated complex visualizations using the First Order Reversal Curves technique to analyze magnetic particles in small tissue samples, enhancing our understanding of their behavior in biological systems.

EDUCATION

California Institute of Technology   Jun. 2022
Bachelor of Science, Computer Science   *Pasadena, CA*

SKILLS

- **Programming Languages:** Python, SQL, C, C++, Java, R, MATLAB
- **Machine Learning and Data Analysis:** PyTorch, TensorFlow, Scikit-Learn, Keras, Numpy, Pandas, XGBoost
- **Tools:** Git, Kubernetes, Docker, AWS, Grafana, Kibana, Apache Airflow, Apache Hive, PrestoDB, Jira

PROJECTS

Enhancing Creativity through Artificial Intelligence (NLP)   Sep. 2023 – Present
- Inspired personal songwriting by leveraging LSTM networks that generate unique song lyrics.

Data-Driven Vaccine Forecasting   Mar. 2021 – Jun. 2021
- Designed a more equitable distribution of COVID-19 vaccines using forecasting models.

Exploring Noise Propagation of Adversarial Images   Apr. 2021 – Jun. 2021
- Investigated adversarial perturbations, providing insights into image recognition vulnerabilities.

Interests: Rugby, Guitar, Poker, Chess, Wrestling, Strength Sports