

Kevin R. Perdomo

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Professional Experience

ML Ops Engineer (Contract), (Clovis Capital)

Remote 05/2024 - Present

- Developed ML models from data scientists and quantitative analysts into production ready REST API servers, providing end points in an ensemble environment for Quantitative Trading.
- Designed and implemented an ML Ops pipeline in Kubeflow and GCP for data collection, processing, model training, testing, and deployment.
- Took full ownership of the machine learning backend, overcoming the learning curve of hedge fund operations and trading APIs, resulting in the first operational ML models for the startup.
- Utilized GCP, Kubernetes, TensorFlow, Kubeflow, and FastAPI for agile development, ensuring modular and scalable solutions for future improvements.
- Engaged with data scientists and quantitative analysts to clarify model purposes, verify their work, and transition models to a production state with thorough testing.
- Conducted extensive research on reinforcement learning applications in finance, contributing to the development and implementation of innovative trading models and finance RL Gym environments.

AI/Machine Learning Engineer, (Lockheed Martin)

Marietta, GA 10/2023 - 07/2023

- Proactively collaborated on the development and optimization of Machine Learning models, leveraging Docker and Helm for enhanced predictive analytics.
- Conducted extensive A/B testing on deployed models to compare performance metrics, enabling informed decision-making and continuous optimization of model accuracy and efficiency.
- Implemented GitLab CI/CD pipelines for standardized, efficient research project deployment, emphasizing best practices in MLOps and efficient model development.
- Utilized Python, scikit-learn, and PyTorch for the implementation of machine learning architectures, significantly improving model accuracy and resource efficiency.
- Conducted comprehensive code reviews and merges, ensuring high-quality, maintainable code across projects, utilizing Git for version control to streamline collaboration and integration processes.
- Collaborated with domain experts at Lockheed Martin to refine the feature engineering space and incorporated feedback to enhance model performance and development

Cloud and AI Consultant, (AudioT)

Atlanta, GA 05/2021 - Present

- Led the development of an innovative audio annotation tool using React, enhancing annotation workflows and improving data annotation accuracy.
- Integrated serverless AWS Lambda functions and APIs to facilitate data flow between RDS PostgreSQL databases, web applications and Machine Learning model development.
- Architected robust AWS cloud infrastructures, ensuring optimal performance, security, and cost-effectiveness for AudioT projects and model development.
- Developed computer vision applications with off the shelf models such as Ultralytics YOLO and Segment Anything for animal welfare solutions
- Implemented comprehensive data management strategies, effectively handling large-scale datasets to drive insights and innovation in AI/ML projects.

Cyber Systems Security Engineer, (Lockheed Martin)

Marietta, GA 06/2022 - 09/2023

- Improved cybersecurity reporting processes by automating documentation generation, reducing completion time from days to hours.
- Formulated and implemented strategic technical mitigations for securing production Active-Directory domains, enhancing overall system security.
- Developed a Software Assurance Plan adopted across Lockheed Martin's Cyber portfolio, establishing a benchmark for SAST and DAST integrations.
- Influenced product development by providing critical cybersecurity insights to Configuration Control Boards, ensuring the incorporation of security requirements from the onset.

Technical Skills

- **Programming Languages:** Python, JavaScript, Java
- **Machine Learning/Deep Learning Libraries:** scikit-learn, PyTorch, TensorFlow, Kubeflow
- **Data Analysis and Visualization Tools:** NumPy, pandas, Matplotlib, Seaborn

Education

Bachelor of Science in Computer Science Georgia Institute of Technology

Atlanta, GA 2018-2022