Clayton Olsen
Data Scientist & ML Engineer

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Summary:

- 4+ years' experience at an AI company in both Customer Facing and Backend Development roles
- Expertise in building and deploying ML models, performing exploratory data analysis, and developing scalable data pipelines
- Skilled in Python, R, and big data tools, with a passion for attacking complex problems with data modeling

Work Experience:

Work/Travel Peru **07/2024 - 09/2024**

- Developed curriculum and led classes for students with El Hilo Rojo ONG, an organization that provides schooling, food, shelter, and social support for children and their families in Trujillo, Peru
- Practiced conversational during Spanish Immersion while volunteering and exploring the country

Software Engineer, ML Engineering Team @ Falkonry, Inc. **11/2021 - 05/2024**

- Built 100's of classification and anomaly detection models to provide warnings and real time feedback for a variety of customer use cases that require deliberation on optimal algorithm selection, hyper-parameter tuning, variable selection, and data cleansing techniques to be applied.
- Developed and optimized the code pipeline for machine learning products
- Presented machine learning use cases and collaborated with customers to address a variety of industry needs using Falkonry's AI platform
- Utilized AWS cloud platform tools such as boto3, S3, Rancher, Kubernetes, and Docker for the management of a machine learning pipeline for experimental neural network models and product code contributions
- Developed and implemented geographical models for density estimation and predictive object tracking that was visualized in Kepler using H3 grid data
- Wrote Python code and used Rest API for automating data engineering tasks, generating reports for sharing findings with customers, and other automatable tasks within a developing application

Data Science Team Intern @ Sparta Science **06/2020 - 11/2021**

- Built Keras NN models for both classification and regression purposes on time-series data
- Computed reliability and performance metrics with data collected from athlete force plate tests
- Used Python and R for development of the company's performance metric and data calculation pipeline

Key Project Details:

Backend

- Developed a scripting pipeline utilizing APIs to automate customer report generation for fault summaries
- Resolved critical bugs that blocked customer activities within a brand-new neural network in the ML pipeline, created Docker images, and deployed them using Rancher and Kubernetes to enhance system stability, adding unit tests to prevent future breakdowns
- Built an application for live tracking of moving vehicles and projecting probability distributions for expected location at future time stamps using Kalman Filter and Rauch-Tung-Striebel smoother that created h3 indexed geospatial data and fed into a live visualization application in Kepler

Customer Facing

- Developed and deployed 100+ custom time-series models for various clients to quickly ramp up AI product monitoring
- Led the ML Engineering team for several customer model development project
- Ran customer team training in AI concepts and the management of machine learning models

Education:

MS Statistical Science, University of California Santa Cruz (2021)

Capstone Project: Implemented Bayesian methodology to study trade-offs between efficacy and toxicity to find the dose level that optimizes a utility function in a variety of simulated experiments

BS Business Analytics, Seattle University (2019)