Henry Mondale

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Summary

Self-taught AI Engineer and data scientist with applied mathematics background.

Specializes in linear algebra, numerical analysis, and agentic AI systems.

Builds and deploys full-stack solutions in Python, R, and SQL.

Expert at building and optimizing machine learning models for innovation.

Experience

Data Science Engineer, Innovation Team *Pasadena, CA*
Kaiser Permanente *Nov 2024 – present*
- Architected >7000-line full stack Data Analyst AI Agent supporting innovation team funding.
- Integrated advanced analytics & automation for impactful business solutions.

Data Analyst Intern *Pasadena, CA*
Kaiser Permanente *June 2023 – Sept 2023*
- Developed and deployed CNN model for X-ray abnormality detection.
- Wrote SQL queries, created PowerBI dashboards, and automated workflows with UiPath.

Education

University of California, Santa Barbara *Santa Barbara, CA*
in Applied Mathematics *Sept 2019 – June 2023*
- Focused on linear algebra, computational methods, and predictive modeling.

Projects

CareerCopilot *Jan 2024 – present*
Full jobseeker platform for resume enhancement, job matching, and automated applications.
- Developed end-to-end platform with resume review, job match, and automation features.
- Led vision, engineering, and current funding efforts.

CNN Image Classifiers *July 2023 – Nov 2023*
Pre-trained model development and fine-tuning for high-accuracy image classification.
- Achieved 96.2% on cats/dogs & 99.3% on MNIST (github.com/henrymondale/computer_vision_using_CNN).
- Applied transfer learning and optimization to improve model performance.

Skills

Programming Languages: Python (native), SQL (proficient), R (advanced), C# (intermediate)

Frameworks & Tools: TensorFlow, Keras, HuggingFace, PyTorch, Sci-Kit Learn

BI & Automation: PowerBI, UiPath

Data Science Methods: Predictive analytics, model optimization, data visualization