

James Ali

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Summary

Data scientist with deep applied mathematics and AI engineering expertise.

Self-taught specialist in agentic systems, hands-on ML, and numerical analysis.

Expert in Python, R, SQL, and full ML stack for scalable, impactful projects.

Experience building production AI and analytics solutions from scratch.

Experience

Data Scientist, Innovation Team

Kaiser Permanente

Southern California, CA

Nov 2024 – present

- Delivered full stack Data Analyst AI Agent (7000+ LOC) adopted team-wide.
- Led architecture, engineering, and deployment of production agentic system.

Data Analyst Intern

Kaiser Permanente

Pasadena, CA

June 2023 – Sept 2023

- Automated analytics workflows using SQL, PowerBI, and UiPath.
- Analyzed patient data on surgery, medication, and outcomes.

Education

University of California, Santa Barbara

in Applied Mathematics

Santa Barbara, CA

Sept 2019 – June 2023

- Applied SVD and numerical optimization for predictive analytics.
- Coursework: numerical methods, optimization, linear algebra.

Projects

Full Stack Data Analyst AI Agent

Nov 2024 – present

Production agentic AI system deployed on Kaiser innovation team.

- Coded >7000 lines to automate end-to-end analytics and visualization.
- Led all phases: architecture, ML engineering, and production delivery.

CareerCopilot

Jan 2024 – present

Founder building AI-driven job-seeker platform; led ML and business.

- Developed and launched resume, matching, and hiring automation tools.
- Initiated funding process and managed end-to-end AI product.

CNN Image Classifiers

Nov 2023 – Feb 2024

Fine-tuned SOTA models for image classification problems.

- Achieved 96.2% cat/dog and 99.3% MNIST accuracy (near SOTA).
- Applied transfer learning and advanced model tuning.

Skills

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

ML/AI Frameworks: PyTorch, TensorFlow, Keras, HuggingFace, Scikit-learn

Data/Visualization: PowerBI, UiPath, Data Viz, ETL Automation

Mathematics: Linear algebra, numerical analysis, optimization

Machine Learning: Transfer learning, agentic systems, predictive modeling