James Ali

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Summary

Data scientist with expertise in applied mathematics and ML.

Self-taught engineer in agentic systems, deep learning, and numerical analysis.

Proficient in Python, R, SQL, and building scalable ML pipelines.

Experienced in architecting, training, and tuning ML models for real-world impact.

Experience

Data Scientist, Innovation Team *Southern California, CA*
Kaiser Permanente *Nov 2024 – present*
- Built production Data Analyst AI Agent (7000+ LOC) for analytics workflow.
- Led technical design, AI engineering, and full deployment lifecycle.

Data Analyst Intern *Pasadena, CA*
Kaiser Permanente *June 2023 – Sept 2023*
- Automated reporting workflows with SQL, PowerBI, UiPath.
- Analyzed and visualized patient data for medical outcome studies.

Education

University of California, Santa Barbara *Santa Barbara, CA*
in Applied Mathematics *Sept 2019 – June 2023*
- Applied SVD and computation for optimization/predictive analytics.
- Relevant coursework: linear algebra, numerical analysis, optimization.

Projects

Full Stack Data Analyst AI Agent *Nov 2024 – present*
Agentic system automating analytics for innovation team at Kaiser.
- Coded >7000 lines, automating end-to-end data workflow and visualization.
- Sole architect: system design, ML engineering, and deployment.

CareerCopilot *Jan 2024 – present*
Founder building an AI-powered platform for advanced job search.
- Launched resume enhancement, job matching, and hiring automation tools.
- Owner of AI/ML models, funding, and business development.

CNN Image Classifiers *Nov 2023 – Feb 2024*
Fine-tuned SOTA models for high-accuracy image classification.
- Cats vs dogs: 96.2%, MNIST: 99.3% accuracy (near state-of-the-art).
- Advanced transfer learning, model efficiency, and pipeline creation.

Skills

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

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

Analytics & Automation: PowerBI, UiPath, data viz, workflow automation

Mathematics: Linear algebra, numerical analysis, convex optimization

Machine Learning: Transfer learning, agentic systems, deep model tuning