Ben Watson

Southern California, USA benwatson@gmail.com ben-watson benwatson

Summary

Self-taught AI Engineer and Data Scientist with strong applied mathematics background.

Designed and deployed production agentic AI systems from scratch.

Proficient in Python, R, SQL, and modern data engineering tools.

Skilled in architecture, orchestration, and deployment of ML models.

Experience

Data Analyst Intern *Southern California, CA*
Kaiser Permanente *June 2023 – Sept 2023*

- Built automated workflows using SQL, PowerBI, and UIPath; boosted process efficiency.
- Developed predictive models and analyzed patient cohorts to support clinical operations.

Education

University of California, Santa Barbara *Santa Barbara, CA*
in Applied Mathematics *Sept 2019 – June 2023*

- Specialized in linear algebra and computational analysis for predictive analytics.

Projects

Full Stack Data Analyst AI Agent (Kaiser Permanente) *Nov 2024 – present*

Built and deployed 7,000+ line AI agent facilitating innovation as core team project.

- Designed, coded, and maintained end-to-end architecture, orchestration, and pipelines.
- Improved organization-wide data analysis through automated agentic workflows.

CareerCopilot *Mar 2024 – present*

Founded AI-powered career platform for resume optimization and job matching.

- Directed product design, development, and integration of multiple AI systems.
- Actively leading funding and business development for launch.

Convolutional Neural Network Image Classifiers *Sept 2023 – Dec 2023*

Achieved 96.2%/99.3% accuracy on Cat-vs-Dog/MNIST datasets with transfer learning.

- Fine-tuned pre-trained models and ensembled results for high-accuracy classification.
- Used advanced evaluation strategies; code public at: github.com/benwatson/computer_vision_using_CNN.

Skills

Programming: Python (Native), SQL (Proficient), R (Advanced), C# (Intermediate)

Frameworks & Libraries: TensorFlow, PyTorch, Keras, HuggingFace, Scikit-learn

Data Tools: PowerBI, UiPath, SQL, data pipelines

Machine Learning: Transfer learning, model ensembling, automated pipelines

Mathematics: Linear algebra, numerical analysis, optimization