

Sujitha Ravichandran

Data Scientist/ Generative AI Engineer

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United States

AI Engineer and Data Scientist with 2+ years' experience designing scalable, secure AI systems, fine-tuning models, and developing autonomous agents using multi-agent frameworks. Skilled in data science, LLM evaluation, and building trustworthy, intelligent pipelines.

Work Experience

Data Scientist

May 2024 - Present

[Aiceberg](#) | New York

- Enhanced transparency, explainability, safety, and compliance in enterprise AI systems by developing advanced trust platform features that strengthened regulatory alignment.
- Designed and managed robust ETL pipelines for large-scale, complex datasets, supporting instruction-based fine-tuning of LLMs and improving data scalability and reliability.
- Built a content adherence model within a RAG evaluation framework, increasing the accuracy and trustworthiness of generative AI outputs.
- Streamlined onboarding processes for seamless dataset uploads into enterprise databases, accelerating data integration for AI-driven applications.
- Engineered and curated 50,000–60,000 prompts for LLM evaluation and training, leveraging advanced prompting techniques in Claude and GPT to optimize model performance.
- Developed a prompt flagging system that reduced security breaches by 30% and improved explainability metrics by 25% by identifying illicit prompts for LLMs.
- Developed a CIAM agent and integrated agent frameworks such as CrewAI, LangGraph, and Pydantic AI, as well as MCP tools, to deliver advanced automation and Agentic AI capabilities.
- Collaborated with cross-functional teams to deliver enterprise-grade security, real-time threat detection, and compliance guardrails for successful AI adoption.

Data Processing, Analytics, and Data Visualization Specialist

Aug 2023 - Dec 2023

[Sensflow](#) | Los Angeles

- Retrieved and analysed business data from website APIs, employed pandas for data cleaning and transformations, then utilized SQL for efficient insertion into database, resulting in a 30% increase in data processing efficiency.
- Designed and implemented interactive data visualization dashboards with Tableau integrating data from SQL databases to deliver actionable insights to stakeholders.
- Engineered advanced, dynamic visualizations with PHP, incorporating cleansed and processed SQL data to represent machine monitoring and inventory trends.

Core Skills

Languages: SQL, Python, C/C++, PHP, HTML, CSS, CUDA Tools: Git, OpenCV, Tableau, Power Bi, Docker, Microsoft Excel, SPSS, SAS Machine Learning Frameworks: NumPy, Pandas, Scikit-Learn, Keras, PyTorch, CrewAI, langchain

Education

University of Houston

Aug 2022 - May 2024

MS Engineering Data Science