

Raghavendra Raikar

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EDUCATION

University of California Santa Cruz

Santa Cruz, CA

Bachelor of Science in Computer Science, Minor in Mathematics

GPA: 3.84

Relevant Coursework: Data Structures/Algorithms, OOP, Software Engineering, Artificial Intelligence, ML, OS, NLP

EXPERIENCE

Machine Learning Intern

January 2025 – Present

UXly

Santa Cruz, CA

- Developing a multi-agent chatbot, leveraging Retrieval-Augmented Generation (RAG) with FAISS/Pinecone and LLaMA to enhance knowledge retrieval for customer inquiries.
- Building an intent classification pipeline using LangChain and LangGraph, reducing misrouted requests by 40% and ensuring accurate query handling.
- Optimizing product catalog data management, splitting and indexing it across multiple vector databases, enabling efficient retrieval for specialized chatbot agents and improving response efficiency by 35%.

Software Engineering Intern

June 2023 - May 2024

NASA

Mountain View, CA

- Implemented and enhanced 10+ features for the CMS Celestial Mapping System using Java, improving 3D simulation accuracy and supporting mission planning initiatives.
- Integrated GDAL updates, increasing image projection accuracy by 30%, while implementing vector-based enhancements that improved crater analysis efficiency by 40%.
- Developed data pipeline and algorithms for HORUS AI, improving lunar crater clarity by 25%, and presented the project at the NASA Better Together 2023 conference.

Software Engineering Intern

May 2019 – July 2019

Kitu Systems

San Diego, CA

- Created a Python program using regex to automate requirement extraction for Kitu-Inverter-Client, improving efficiency by 70% and reducing development time by 35%.
- Conducted TPM testing on the OnLogic Board, achieving a 95% success rate in secure key storage and file decryption while improving team accessibility.

PROJECTS

PlayPicks | *React, Flask, spaCy, Firebase, LlamaIndex, OpenAI GPT-4, Odds API, RAG* August 2024 – Present

- Built an AI-powered sports betting chatbot using LlamaIndex (RAG) and GPT-4 for real-time odds, AI predictions, and personalized insights.
- Integrated spaCy for NLP, Firebase for data management, and Odds API for real-time sports data, deploying via AWS Amplify to reach 100+ users.

PantryPal | *Streamlit, Flask, Pandas, NLTK, scikit-learn, BeautifulSoup*

July 2023 - August 2023

- Engineered an AI-powered recipe recommendation tool, using Streamlit for an interactive UI and Flask for backend processing.
- Built a machine learning model using scikit-learn and NLTK, leveraging BeautifulSoup for web-scraped recipe data to enhance recipe recommendations based on user-inputted ingredients.

TECHNICAL SKILLS

Languages: Python, C, C++, Java, JavaScript, SQL, Flutter, Swift, TypeScript

Frameworks/Libraries: React, Node.js, SpringBoot, Streamlit, Django, Flask, Langchain, FastAPI, NLTK, Pandas, scikit-learn, spaCy, BERT, Hugging Face, Llamaindex

Developer Tools: Git, Docker, Azure, AWS, GCP, Linux, CI/CD, Kubernetes

Certifications: Oracle Certified Associate Java SE 8 Programmer, AWS Certified Cloud Practitioner

LEADERSHIP & COMMUNITY

Technical Writer @ Medium: Blogging about software, emerging tech, and my passion for AI & ML.

Open Source Contributor: Contributing to open source repositories

NLP Researcher @ UCSC Tech4Good: Jan 2023 - Dec 2024

Group Tutor @ UCSC Baskin Engineering: Tutored students in Computer Systems Design, Python Programming, and Computer Architecture.