

ALIZA SAMAD

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EDUCATION

University of California, Santa Barbara

Santa Barbara, CA

B.S. Statistics and Data Science

Expected Graduation: June 2026

Cumulative GPA: 3.90 / 4.0

- Honors: Dean's Honor List

Relevant Coursework: Intermediate Python, Probability & Statistics, Regression Analysis, Survival Analysis, Intro to Machine Learning

SKILLS & CERTIFICATIONS

Technical Skills

- **Programming & Data:** Python (pandas, numpy, llamaindex), R (tidyverse, shiny), SQL
- **AI/ML:** LLMs (Claude, Ollama), RAG pipelines + RAGAS evaluation, Vector DBs (Weaviate, Qdrant), Agents (Strands), MCP
- **Cloud & DevOps:** AWS (EC2, S3, Bedrock, Lambda), Docker, GitHub Enterprise
- **Web Development:** Quarto, Shiny, HTML/CSS, Posit Connect (Git-backed publishing)
- **Data Visualization & BI:** Tableau, matplotlib, seaborn, ggplot2
- **Other Tools:** MS Office Suite (Excel, PowerPoint, Word), Adobe Express, Canva

Certifications

Greater Learning: Data Analytics Using Excel, Data Visualisation in Tableau, SQL for Data Science

Coursera: Google Data Analytics Professional Certificate

TECHNICAL EXPERIENCE

National Aeronautics and Space Administration | Washington, D.C.

Jan 2025 - Present

AI Engineer Intern

- Modernized the PA team's **Quarto** site, implementing Git-backed publishing for automated redeployment on **Posit Connect**.
- Developed and deployed an **LLM-powered chatbot** (Python + R Shiny UI) with **RAG** using **Weaviate** hosted on **AWS EC2**.
- Researched and demoed Anthropic's Model Context Protocol (**MCP**) integration with **Ollama** for task automation.
- Designed a multi-agentic AI system using **Amazon Bedrock Agents**, containerized MCP servers with **Docker** on EC2.
- Built a knowledge management pipeline: external file app (Python) → **AWS S3** → **Qdrant Vector DB** → **Open-WebUI**.
- Conducted RAG optimization research with pre/post-retrieval techniques, evaluated with **RAGAS** (BLEU, latency, etc).

Webacy (Extern) | Remote

Aug 2024 - Oct 2024

Web3 Security Data Analytics Extern

- Researched and validated 36 Ethereum smart contract vulnerabilities using frequency & correlation analysis.
- Applied **Python** (pandas, scipy, seaborn, matplotlib) to perform feature engineering & cluster analysis for risk detection.
- Designed **Excel** dashboards for risk frequency visualization and anomaly detection.

Mobalytics (Extern) | Remote

Aug 2024 - Sept 2024

Gaming Market Research Extern

- Conducted market research and data analysis in the gaming industry, generating insights into player behavior.
- Created **Tableau dashboards** from Google Sheets data, visualizing engagement metrics for Papa's Pizzeria gameplay.
- Developed business strategy recommendations, received honorable mention as alternate presenter at end of externship

PROJECTS

- **Random Forest Regression Model (R):** Predicted AI-specific job title salary ranges; *improved baseline model by 4%*.
- **IMDB Web Scraper:** Automated data collection using *Beautiful Soup* + *Selenium*, generating exploratory analysis reports.
- **Carbon Emissions Dashboard:** Developed *Tableau* visualization of CO2 dataset, data wrangling in *RStudio*.
- **Personal Portfolio Website:** [GitHub Pages](#) site showcasing projects; *self-taught HTML/CSS* to enhance style and personalization

LEADERSHIP

Indus | Santa Barbara, CA

Feb 2024 - Present

President, Vice President, Intern

- Communicate with **10+ cultural clubs** to establish a professional, supportive relationship and collaborate for events
- Responsible for planning events with **500+ members**, specifically coordinating with vendors, budgeting, and organizing funds
- **Pivot quickly** when faced with financial blockers, last-minute venue cancellations, and low member engagement

Data Science Club | Santa Barbara, CA

Oct 2023 - Dec 2024

Director of Outreach, Outreach Intern

- **Spearheaded UCSB's first datathon**, secured Red Bull sponsorship and **\$5000 sponsorship** from SingleStore
- **Led Data Talks** with company professionals thrice each quarter, including past collab with Snowflake and AT&T