




SAFIYA ALAVI

THIRD-YEAR STATISTICS AND DATA SCIENCE

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TECHNICAL EXPERIENCE

DATA SCIENCE CAPSTONE

Amgen | Sept 2022 – Present

- Collaborated with peers to create **knowledge graph** using **NLP** and **text mining** algorithms to increase efficiency of searching for entities and their relations, discovering new information, and enabling complex decision making

INDEPENDENT RESEARCHER

Moeller Lab | Sept 2022 – Present

- Produced **visual outputs** of simulated data by local-scale and **global-scale models** using **MATLAB** to visualize how the thermal sensitivity of plankton metabolism effects nutrient cycling world-wide
- Collaborated with professors at **UCSB** and **MIT** to analyze effects of global warming on nutrient cycling in the ocean world-wide

META DATA CHALLENGE FINALIST

Meta | May – Aug 2022

- Selected as a finalist (**one of eighty-six** undergrad students in North America) for a competitive **five-month** data science apprenticeship at Meta
 - Involved small and large group projects, one-on-one mentorship opportunities, peer networking and technical workshops
- Analyzed Netflix Kaggle dataset using **R-Studio** and **SQL** to produce actionable insights for a **business strategy** and presented a **data-driven product pitch** to an audience of Data Scientists and Engineers

UC DAVIS COSMOS ATTENDEE

COSMOS | Jun 2019 – Jul 2019

- Earned invitation to UC Davis COSMOS, a prestigious five-week program (**30% acceptance**)
- Collaborated with peers to study, outline and create a presentation on the evolution of antibiotic resistance which was showcased to an audience of over **five-hundred people**

PROFESSIONAL & LEADERSHIP EXPERIENCE

UCSB DHADKAN PRESIDENT

UCSB Dhadkan | Sep 2020 – Present

- Directed non-profit organization of **forty+ students** and seven sub committees to generate over **\$10,000 in profit** by facilitating fundraisers throughout the year
- Managed the marketing, financial, logistical and social facets of Nachle Deewane, an annual dance competition which attracts over a **thousand attendees** from around the US

MATHEMATICS TUTOR

Mathnasium | Jan 2020 – Nov 2021

- Enhanced over **fifty students'** capabilities and self-esteem in elementary to **university-school level mathematics** with hands-on, personalized tutoring styles and worksheets customized to their learning
- Communicated with fellow instructors to ensure students received a wide variety of tutoring styles

PATIENT SERVICES VOLUNTEER

Kaiser Permanente | Jan 2017 – Oct 2019

- Engaged in unique **interactions with administrators** that allowed me to understand patient workflow
- Introduced to **customer service skills** by manning various service desks and utilized **problem solving skills** when presented with patients' grievances

EDUCATION

UC Santa Barbara (2020 – 2023)

Candidate for Bachelors in Statistics and Data Science

Honors Student

GPA: **3.89/4.0**

Relevant Courses:

- Statistical Machine Learning (92%)
- Design and Analysis of Experiments
- Regression Analysis (97%)
- Applied Stochastic Processes (92%)

TECHNICAL SKILLS

LANGUAGES:

- Python (pandas, numpy, matplotlib, pyspark, tensorflow)
- R-Studio (tidyverse, dplyr, ggplot)
- MATLAB
- SQL
- SAS
- HTML
- CSS

PROJECTS

Wine Quality Classification

(Supervised ML Project in R-Studio)

Identified and predicted wine quality given chemical predictors using ML models such as LDA, Single Decision Trees, Random Forest, Boosted Trees

“ZuckFlix” Content Recommendation

Provided actionable information and created intuitive visualizations about current trends in the entertainment industry using SQL and R

AWARDS

- L&S Honors Program
- AP Scholar with Distinction

HOBBIES & INTERESTS

- Reading
- Hiking
- Travelling
- Photography