SAFIYA ALAVI

THIRD-YEAR STATISTICS AND DATA SCIENCE

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PROFESSIONAL & LEADERSHIP EXPERIENCE

RESEARCH ANALYST
Propel Bio Partners | July 2023 – Present
- Diligently screened and **analyzed financials, clinical trial data, and business models** of prospective investments in the **life sciences industry**, delivering crucial insights that informed strategic decision-making and identified high-potential opportunities for the firm's portfolio.
- Devised and executed an **RSS-based system** to track pivotal inflection points, news, and press releases for portfolio companies, boosting information-gathering efficiency by **30%.**

DATA ANALYST INTERN
Isla Vista Community Services District | April 2023 – Present
- Leveraged **Python** to conduct comprehensive analysis of the IVCSD's event calendar data which facilitated informed decision-making and contributed to the optimization of event planning.
- Pioneered **algorithm development** to automate data collection, streamlining workflows, enhancing accuracy, and optimizing operational efficiency at the community center.

UCSB DHADKAN PRESIDENT
UCSB Dhadkan | Sep 2020 – June 2023
- 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.

TECHNICAL EXPERIENCE

DATA SCIENCE CAPSTONE
Amgen | Sept 2022 – June 2023
- Collaborated with peers to leverage **deep learning techniques (NLP and text mining algorithms in Python)** to extract and label biomedical entities from the free text of research papers.
  - Trained and tested a BERT (**Bi-directional Encoder Representations of Transformers**) model on data from PubMed research papers, which resulted in a final accuracy of **62%.**

INDEPENDENT RESEARCHER
Moeller Lab | Sept 2022 – June 2023
- 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 in the ocean and coded a webpage using **HTML/CSS** to display my research findings.

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.
- 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 **(30% acceptance rate)** and created a presentation on the evolution of antibiotic resistance which was showcased to an audience of over **five-hundred people.**

EDUCATION

UC Santa Barbara (2020 – 2023)
BS in Statistics and Data Science
Honors Student
GPA: **3.87/4.0**
Relevant Courses:
- Statistical Machine Learning (92%)
- Design and Analysis of Experiments (97%)
- Regression Analysis (97%)
- Applied Stochastic Processes (92%)

TECHNICAL SKILLS

DATA ANALYSIS:
- Python (pandas, numpy, matplotlib, pyspark, tensorflow)
- R-Studio (rshiny, tidyverse, ggplot)
- MATLAB
- SQL
- SAS
- Microsoft Excel

WEB DEVELOPMENT:
- HTML

PROJECTS

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
- College of L&S High Honors
- AP Scholar with Distinction

HOBBIES & INTERESTS
- Reading
- Travelling
- Cooking