

# Cyrus Navasca

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## EDUCATION

### University of California, Santa Barbara (UCSB)

August 2022-June 2026

Bachelor of Science (B.S.) in Statistics & Data Science, Minor in Mathematics

Santa Barbara, CA

- 3.63 GPA
- Relevant coursework: Statistical Machine Learning, Regression Analysis, Bayesian Data Analysis, Applied Stochastic Processes, Probability & Statistics, Time Series, Design of Experiments, Intro to Economics, Advanced Linear Algebra

## EXPERIENCE

### Data Science & AI Intern

July 2025-Present

Elas Pleasanton, CA

- Developed an AI agent using LangChain framework to interpret natural language queries and automate machine learning workflows, leveraging SARIMA and XGBoost models for accurate predictive analytics and forecasting.
- Designed a scalable PostgreSQL database schema featuring a dynamic data model that supports flexible field storage, enhancing adaptability for evolving data requirements and optimizing query performance.
- Streamlined client sales processes such as email tracking and campaign management through development of RESTful APIs to facilitate full CRUD operations, ensuring efficient data interactions within cross-functional workflows

### Data Analytics Research Assistant

March 2025-Present

META Lab

Santa Barbara, CA

- Spearheaded statistical analysis of experimental data to uncover relationships among curiosity, creativity, and intervention types using mediation models, ANCOVA, A/B testing, and multivariate regression.
- Engineered robust data preprocessing scripts to automate dataset merging, reshape data via pivoting, and enforce consistent variable types, enabling seamless downstream statistical analysis and reproducibility.
- Validated dataset integrity by quantifying inter-rater reliability across experiments and applying rule-based filters using completion time and engagement indicators to retain high-quality observations for subsequent analysis.

### Data Analyst Intern

October 2024-Present

Daily Nexus

Santa Barbara, CA

- Executed correlation analysis between Rate My Professors ratings and UCSB grade distributions, then deployed an interactive Tableau dashboard to over 30,000 readers, featuring dynamic visualizations and user-friendly design.
- Constructed a scalable data workflow using Selenium to scrape 3,000+ websites and transforming raw inputs through feature engineering, dataset integration and extracting information from unstructured text to prepare for analysis.

### President

September 2023-Present

UCSB Data Science Collaborative

Santa Barbara, CA

- Formulated a workshop series on fundamental data science topics such as data visualization, wrangling, and machine learning supplemented with presentation slides and interactive worksheets using sample datasets.
- Led and mentored over 150 registered members, guiding students through the data science lifecycle as they coded their first projects in various topics while fostering an inclusive and collaborative learning environment.

## PROJECTS

### Detecting Diabetic Retinopathy w/ Computer Vision

- Engineered a deep learning pipeline in PyTorch by training a ResNet50 CNN, identifying diabetic retinopathy from retinal images with 96% accuracy, enhancing early diagnostic capabilities through automated computer vision.
- Improved model generalization by implementing advanced augmentation strategies and regularization techniques, reducing overfitting by 40% and enhancing performance on unseen data.
- Utilized AWS S3 to store and retrieve over 3,000 patient retina scans, enabling seamless access to training data and supporting scalable, cloud-based model development for medical image classification.