Cyrus Navasca

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EDUCATION

University of California, Santa Barbara **August 2022-June 2026**
Bachelor of Science (B.S.) in Statistics & Data Science, Minor in Mathematics Santa Barbara, CA

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

SKILLS & CERTIFICATIONS

- Languages/Tools: Python (NumPy, Pandas, Matplotlib, Seaborn, PyTorch, Scikit-learn), R, SQL, Tableau, SAS, Git, Microsoft Office Suite (Excel, Word, PowerPoint)
- Skills: Data Analysis, Statistical Analysis, Machine Learning, Data Visualization, Data Cleaning, Business Intelligence
- Certifications: Analytics with SQL and Python, Data Visualization Using Python, Python for Machine Learning

EXPERIENCE

Research Analytics Assistant **March 2025-Present**
META Lab Santa Barbara, CA

- Analyzed data from an experiment investigating whether reducing functional fixedness increases measures of curiosity, conducting independent t-tests in R to compare curiosity scores between control and experimental groups.
- Engineered raw data by merging multiple datasets, pivoting data structures, and standardizing variable types to ensure analytical consistency and readiness for statistical testing.
- Evaluated inter-rater reliability using Cohen's Kappa to ensure consistent scoring of curiosity measures across independent raters for over 100 participants, confirming sufficient agreement to proceed with statistical analysis.

Data Analyst Intern **October 2024-Present**
Daily Nexus Santa Barbara, CA

- Executed correlation analysis between RateMyProfessor ratings and grade distributions at UCSB, leveraging statistical techniques and interactive visualizations to uncover trends and relationships.
- Deployed a public Tableau dashboard to 28,000 students, integrating trend analyses and comparative charts to facilitate seamless data exploration through dynamic visualizations and user-friendly design.
- Transformed multiple data sources totaling 95,000 observations by parsing string-based attributes, engineering new features through aggregation and joining together datasets to streamline the process of data visualization.

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

Predicting Credit Card Default with Neural Networks Github

- Constructed a neural network using PyTorch to predict credit card default among clients, achieving an accuracy of 79% as well as AUC scores of 0.85 and 0.8 for ROC and precision-recall curves respectively.
- Preprocessed and wrangled a dataset of 3,000 observations by dropping features that negatively impacted model performance, conducting detailed feature selection, and crafting new features through aggregation.
- Enhanced prediction quality by 140% through hyperparameter tuning, applying L2 regularization, and implementing SMOTE (Synthetic Minority Over-sampling Technique) to effectively address class imbalance.