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), Jupyter
- 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

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, helping to provide a deeper understanding of workshop material and general understanding of data science in order to foster a welcoming educational environment.
- Facilitated weekly events and networking opportunities for members by leveraging connections with industry professionals to provide members with exposure to career opportunities and practical insights into the field.

PROJECTS

Diamond Price Analysis Github

- Implemented linear regression to analyze the key factors driving 2022 diamond prices by assessing model diagnostics and performing in-depth feature selection to minimize AIC/BIC, attaining a model with a 0.98 adjusted R-squared.
- Conducted comprehensive exploratory data analysis by plotting the relationships between variables, examining individual distributions and generating a correlation heatmap to investigate multicollinearity.
- Optimized model performance by 8% through applying polynomial transformations to effectively capture non-linear relationships and handling unusual observations which disproportionately skewed results.

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.