

CHASKA D KENTISH

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EDUCATION

UNIVERSITY OF CALIFORNIA, SAN DIEGO

Intended B.S Political Science: Data Analytics, B.S. Global Health

Expected June 2024

- Minor in Computer Science, Biology
 - Recipient of the Chancellor's Scholarship: Awarded to students who demonstrated academic excellence and active levels of community involvement.
 - Relevant Coursework: Machine Learning, Data Analytics, Business Analytics, Statistics and Biostatistics, Probability, Discrete Mathematics, Optimization and Game Theory, Data Visualization
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EXPERIENCE

SANDAG, San Diego, CA

September 2023 - Present

Data Science Intern

- Utilized Python and SQL to analyze, process, and upload data to company data portal and perform QA/QC performance checks (on datasets and regional forecasting)
- Simple front-end development and encoding of data to be compatible with widgets for storyboard implementation

Scripps Research Institute (Law Lab), La Jolla, CA

April 2022 - Present

Research-Intern

- Conducted advanced molecular and microbiological techniques (including mutagenesis for HCV receptors, PCR, ELISA assays, DNA gels, etc.)
- Collected and analyzed data in Excel and other Bioinformatics technologies to analyze sequencing data and create graphs for data visualization

UCSD Academic Achievement Hub, La Jolla, CA

September 2021 - Present

Supplemental Instruction Leader

- Led and developed supplemental instruction courses for: (1) general chemistry, (2) evolution/ecology, (3) cell biology implementing research based pedagogical strategies to promote student engagement and excellence
 - Utilized Google Suite for data entry to track and maintain basic information regarding student attendance, participation, and other administrative duties
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TECHNICAL SKILLS

- Programming Languages: Python, R, SQL (SQLite, PostgreSQL), Javascript, HTML, CSS, Java
 - Machine Learning and Visualizations: Python [pandas, geopandas, numpy, matplotlib, seaborn, sklearn, scipy], R [e1071, ggplot2, tidyverse, tidymodels]; Javascript [D3.js, AJAX.js]; STATA; Tableau
 - Miscellaneous Technologies: SPSS, SAS, Excel, Git, NLP, Experimental Design, UNIX, APIs, AWS, QGIS, ArcGIS
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PROJECTS

State Health Index (BRFSS Data)

- Utilized Principal Component Analysis (PCA) within Python, employing packages such as Pandas, NumPy, Scikit-Learn, and GeoPandas, to perform geospatial data analysis and create a Health Index from CDC's BRFSS survey data. This Index assessed the overall health of U.S. states.
- Addressed potential biases in the self-reported survey data by standardizing values, imputing missing data, and applying ethical data cleaning techniques, ensuring robust results in geospatial health analysis.
- Validated against established health rankings, demonstrating the effectiveness of the machine learning approach in uncovering health disparities, state-specific trends, and geospatial insights.

Political Stability and Food Security Data Analysis

- Performed a comprehensive Multivariate Regression analysis using World Bank data on political stability and economic freedom to explore their influence on food security.
- Implemented data pipelines with dplyr from the tidyverse package, ensuring clean and transformed data for accurate modeling.
- Employed data visualizations, including correlation heatmaps, to uncover significant relationships among key variables, supporting the research's empirical foundation.