

Calwin Li

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EDUCATION

University of California, San Diego

Data Science B.S, Probability & Statistics B.S.

June 2026

Relevant coursework: Probabilistic Modeling and Machine Learning, Data Structures and Algorithms, Practice and Application of Data Science, Theoretical Foundations of Data Science

EXPERIENCE

Halicioğlu Data Science Institute, UC San Diego, San Diego, CA

March 2024 - Present

DSC 40B Instructional Assistant

- Held office hours and graded assignments for over 100 students weekly
- Developed problem sets relating to data structures and algorithms utilizing LATEX
- Supported students with one on one and small group instruction during office hours

Teaching and Learning Commons, UC San Diego, San Diego, CA

September 2023 - Present

Math and Physics Tutor

- Tutored students in college-level mathematics and physics courses up to multivariable calculus
- Provided educational resources to marginalized and underrepresented students
- Supported students mentally and emotionally through academic challenges

PROJECT EXPERIENCE

Language Prediction Model | *Python, Numpy, Jupyter Notebooks*

March 2024

- Built a Ridge Regression model from the ground up to classify words as French or English
- Engineered features using gini impurity, achieving test accuracy of 87%

[Binary Classification ML Model](#) | *Pandas, Python, Scikit-learn, Numpy, HTML, CSS*

January 2024

- Engineered features using Pandas operations as well as Scikit-learn pipelines
- Used GridSearchCV to tune hyperparameters for a Random Forest Classifier, achieving 96% test accuracy
- Built interactive visualizations using Matplotlib and Python
- Performed fairness analysis on final model using hypothesis testing

[Exploratory Data Analysis](#) | *Pandas, Numpy, Python, HTML, CSS*

November 2023

- Utilized Pandas DataFrame operations to clean data as well as generate data visualizations
- Summarized and analyzed data with Python and Pandas DataFrames
- Performed hypothesis and permutation testing utilizing Pandas operations

Digit Classifier | *Java*

March 2023

- Built machine learning program used to classify handwritten digits with 95% success rate
- Utilized KNN classifier, as well as self implemented heap and priority queue
- Constructed basic GUI allowing for user to draw their own digits

SKILLS

- Python, SQL, Jupyter Notebooks, Java, Pandas, Git, PyTorch, React, JavaScript, R, HTML, CSS
- Communication, Teaching, Data Visualization