

# KATHY MO

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Undergraduate student with experience in MySQL, Tableau, Python, R, and JavaScript. Has experience with data cleaning techniques, machine learning, and statistical analysis such as time-series forecasting, cluster analysis, and principal component analysis.

## EDUCATION

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### University of California, Davis

*Bachelor of Science in Statistics, Data Science (GPA: 3.925/4.00)* Sept. 2020 – Mar. 2024

Edward Frank Kraft Prize (2020 – 2021): Given to students who achieved the highest GPA

Deans' Honor List

**Courses:** Intro to Data Structures, Statistical Data Technologies, Statistical Data Science, Applied Time-Series Analysis, Regression Analysis

## SKILLS

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**Programming:** Python, R Studio, MATLAB, HTML, SQL, JavaScript

**Software:** Jupyter Notebook, Tableau, MySQL, GitHub

**Design and Analytical Skills:** Analytics Reasoning, Data Collection, Data Cleaning

**Computer Skills:** Database Management, Microsoft Office, LaTeX, Data Visualization

## PROJECTS

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### Top 1000 and Bottom 1000 Movies Data Analysis Nov. 2022 – Dec. 2022

*Researched Correlation of Movie Worldwide Gross and User Score with Several Factors*

- Collaborated with a team of five to web scrape and create our final dataset using Python
- Created a function to correct each movie name so datasets could be properly merged
- Cleaned dataset by simplifying the genres for easier data analysis
- Performed logistic and linear regression to analyze model and draw conclusions

### CA Election 2022 Data Challenge Sept. 2022 – Oct. 2022

*Data Analysis of Proposition 30: Increase Tax on Millionaires to Fund Electric Vehicle Program*

- Collaborated with team of four in brainstorming and summarizing California Air Resources Board data resources
- Developed data visualizations and statistical models from publicly available data using R
- Predicted the number of electric vehicles and greenhouse gases by 2050
- Interpreted the results of Proposition 30 tax and its potential impact on electric vehicles
- Presented the conclusions and recommendations regarding the proposition

### Lovelace Hacks Apr. 24, 2021 – Apr. 25, 2021

*Created Mortgage Calculator for Young Adults*

- Participated in a team of three to brainstorm and successfully create a project
- Created textboxes using JavaScript for inputting values into mortgage calculator
- Implemented formulas for calculating housing mortgage using Python
- Produced a housing mortgage calculator to help people figure out costs
- Presented results to review board and won a prize