

Kavya Karunakaran

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EDUCATION

California Polytechnic State University, San Luis Obispo Expected June 2025
Bachelor of Science in Computer Science GPA: 3.5/4.0
Coursework: Knowledge Discovery from Data, Introduction to Data Science, Introduction to Database Systems, Database Modeling Design and Implementation, Introduction to Computer Security, Systems Programming, Computer Architecture, Dynamic Web Development

WORK EXPERIENCE

Software Engineering Intern June 2023 - Present
CalMatters | Digital Democracy Project San Luis Obispo, CA

Implemented the following using Python and MySQL.

- Created model layer objects and wrote script that regularly updates database with new data. Used a tiered approach to optimize performance.
- Scraped Word docs using an open-source library to extract relevant text.
- Parsed text and used fuzzy string matching to extract organizations in support and in opposition to bills, detect typos, and validate and insert names into database.
- Created scripts to cleanse database by identifying and removing bad data and merging duplicated records.
- Utilized Pandas to extract data from Google sheets spreadsheet and perform analysis.

Instructional Student Assistant | Cal Poly Apr 2023 - June 2023

- Assisted students in CSC 202 Data Structures class with debugging, graded program demos.

PROJECTS

Knowledge Discovery from Data Sept 2023 - Dec 2023

- Implemented the following data mining and machine learning algorithms in Python: PageRank, collaborative filtering, hierarchical clustering, random forest classifier, and cross validation. Ran performance evaluation on each algorithm.
- Performed analysis of a dataset using association rule mining and agglomerative and KMeans clustering.

LEADERSHIP

Campus Officer Aug 2023 - Present

Women Involved in Software and Hardware (WISH) | Cal Poly

- Planned meetings to create a supportive environment for women in computing and hardware majors.

SKILLS

Languages and Software: Java, Python, C Language, Linux, SQL, RISC-V, SciKit, React, Pandas, HTML, CSS, JavaScript

Concepts: Systems Programming, Data Structures, Machine Learning, Data Science, Object-Oriented Programming, Data Mining

AWARDS AND ACCOMPLISHMENTS

- Dean's List March 2024, December 2022, March 2022, December 2021
- National Merit Scholarship Finalist, 2021