Sanjit Sarda

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Summary

I am passionate about machine Learning competitions and am most experienced in Python and JavaScript. My recent projects have revolved around integrating software and hardware. During college, I hope to explore BCIs, Signal Processing, Machine Learning, and Robotics in greater depth.

Education

University of California, Los Angeles – Los Angeles, California

Bachelor of Science in Electrical Engineering   *Sep 2022 – Jun 2026*

- Member of ACM, IEEE, and LUG(Linux Users Group)
- Relevant Coursework: CS 31: Introduction to C++, ECE 102: Systems and Signals, ENGR 96a: Underwater Robotics

Rancho Bernardo High School – San Diego, California

High School Diploma   *Sep 2018 – Jun 2022*

- President of Science Olympiad
  - Focused on engineering, circuits, programming, and research and won 5 statewide medals.
  - Lead a team to help our local middle school's chapter stay afloat, opening 15 volunteering positions
- President of Computer Science and Security
  - Lead the **Linux** division of our club
  - Established programming workshops on **Python** and **Node.js**
- Was one of 5 students in the nation to be awarded the $10,000 Science Olympiad Founders' scholarship and one of 3 students in San Diego to be awarded the $2,000 Rancho Bernardo/Smith Scholarship.

Experience

STEM-Away - Remote

Machine Learning Intern   *Jun 2021 – Aug 2021*

- Implemented **BeautifulSoup** and **Selenium** to scrape the Cartalk and MyCroftAI DiscourseHub Forums.
- Cleaned and processed the scraped data using **Pandas** in Google Colab.
- Collaborated with a small team of 10 to create a Recommender System for the Cartalk forum on DiscourseHub.

Projects

WizardMirror   *Aug 2018 - Jun 2020*

- Designed a modular Smart Mirror using **Node.js** and **Electron.js** for **Raspberry Pis**.
- Wrote sample modules including a weather application using the OpenWeatherMap **API**.

LiteBot   *Sep 2020 - Mar 2021*

- Wrote an **MQTT** script that streamlined all appliances in my room, including my Philips Hue Lights.
- Programmed a Discord bot in **Node.js** that works with the MQTT system to control my lights.
- Added security features to limit public activity during nighttime and prevent spam use.

FRC Scouter   *Feb 2019 - Sep 2019*

- Developed an **Android Application** for scouting FRC Robotics teams in **Java**.
- Implemented modular scouting features and a default scouting template.

JamesBot   *Apr 2022 - Present*

- Developed a discord bot designed for the UCLA '26 Discord.
- Added features to plan events, moderate the server, and schedule classes together and schedule daily events.

Kaggle Competitions   *Jun 2022 - Present*

- Participate regularly in competitions to practice **Data Science** and **Machine Learning** skills.
- Practiced **Imputation**, **Clustering**, **Regression**, and **Feature Selection** among other skills.

Skills

Skills: Programming, Data Science, Circuit Design, PCB Design, IOT
Technologies: Python, Javascript, Full Stack, Java, Git, Raspberry Pi, Microcontrollers, Arduino, Kaggle, Vercel, Seaborn, Pandas, Numpy, sklearn