Aaryan Agrawal

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Profile	Motivated high school senior with experience in robotics, data science and machine learning. Collaborative and reliable. Able to quickly learn and adapt to workplace environments.

Skills & Abilities

- Communication, public speaking, organization
- Python, Java, JavaScript, SQL
- Data analysis, machine learning, neural networks
- Vision processing, OpenCV

Work Experience

Lockheed Martin Solar & Astrophysics Laboratory, Palo Alto, CA   **September 2020 - Present**
IRIS Data Analyst

- Worked with data from IRIS satellite
- Developed K-means clustering algorithm for sunspot emission spectra
- Generated comprehensive dataset of sunspot atmospheres and magnetic fields

Castlight Health, San Francisco, CA
Engineering Intern   **Summer 2020**

- Used topic modeling (LDA) to group and understand comments from user surveys
- Analyzed and graphed user search database to find trends and improve results

Engineering Intern   **Summer 2019**

- Used open-source tools to generate relational diagrams of databases; provided web interface that any engineer could access
- Implemented Python tooling to automatically fetch and graph monitoring routines

Education

Gunn High School, Palo Alto, CA
Expected Graduation: June 2021
Unweighted GPA: 4.0; Weighted GPA: 4.3

Relevant Coursework

AP Computer Science A
Engineering Technology (Gunn Robotics Team)
AP Chemistry, AP Physics C, AP Calculus BC

Extracurricular Activities

Gunn Robotics Team, Palo Alto, CA   **Fall 2019 – June 2021**
Controls Subgroup

- Wired all electrical components and CAN bus
- Spearheaded computer vision initiative, created entire OpenCV processing pipeline
- Trained convolution neural network to track balls on field and autonomously move to them
- Prepared and delivered electronics lessons to new members

Gunn Cryptology Club   **Fall 2019 – June 2021**
Vice President

- Co-organized and publicized Great Cipher Challenge, a national cryptology competition
- Developed website and backend, including scoring system and leaderboard

Wave Learning Festival   **Fall 2020**
Teacher

- Created and taught Data Analysis with Python class
- Made Jupyter notebooks for every class session for full interactivity

Gunn Badminton Team   **Spring 2018 – Spring 2020**
Varsity

- Participated in 14 matches per year in highest Bay Area team division