

AKSHAJ BHARADWAJ

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SUMMARY

High School Senior from Canyon Crest Academy, seeking research work in the field of Computer Science, Artificial Intelligence and Machine Learning

COURSE WORK

Honors Math – I, II, III Introduction to Engineering Techniques, Honors English, Biology, Spanish 1, II, III, QUEST I, II – Research Methods in Science, AP Calculus AB, BC, AP Computer Science Principles, AP Physics I, II, AP Computer Science A, AP Psychology, AP Language, Machine Learning, AP Statistics

EXPERIENCE

Research Intern

University California Santa Cruz

July 2023– August 2023, Santa Cruz, California

- Research work in UNet and GANs in Medical Images.
- Generative Adversarial Networks (GANs) which is one of the vital and efficient methods for generating a massive, high-quality artificial picture.

Research Intern

University California San Diego

November 2023 – Present, San Diego, California

- Research in predicting gene expressions in cancer tissues using Machine Learning techniques
- Using gene expressions to recognize relationships between genes

Greater San Diego Science and Engineering Fair

San Diego

- Recieved a third place award for creating an adaptive method of choosing a computational model for running object detection using computer vision techniques

Student Volunteer

American Youth Literacy Foundation

January 2022 – Present

- Teaching and assisting underprivileged students who struggle reading
- Assisted in the growth of students' reading proficiency, as measured by a 20% increase in average reading scores on standardized testing. Utilized instructional techniques to engage students and provide useful and targeted information needed to assist with improvement.

Math Volunteer

Elementary Institute of Science

January 2022 – Present, US, CA, San Diego

- Lead volunteer teaching students math who live in an underprivileged area with a lack of proper education from all grade levels 1–6

Research team member

Wireless Communications Network and Sensing Lab, UCSD

January 2022 – June 2022, US, CA, San Diego

Research team member at Quest Lab

Canyon Crest Academy

August 2021 – December 2021, US, CA, San Diego

Science Volunteer

Reuben H Fleet Science Center

January 2021 – August 2021, US, CA, San Diego

Strategy Leader and Software Controls Team Member

Canyon Crest Academy Robotics Club

August 2020 – June 2021, US, CA, San Diego

EDUCATION

High School

Canyon Crest Academy • San Diego, California • 2024

SKILLS

Python, Javascript, Java, HTML