Akshaj Bharadwaj

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OBJECTIVE

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

WORK HISTORY

[Aug 2020 – June 2021] Strategy Leader and Software Controls Team Member at Canyon Crest Academy Robotics Club, San Diego
[Jan 2021 – Aug 2021] Science Volunteer at Reuben H Fleet Science Center, San Diego
[Aug 2021 – Dec 2021] Research team member at Quest Lab, Canyon Crest Academy, San Diego
[Jan 2022 – June 2022] Research team member at Wireless Communications Network and Sensing Lab, UCSD, San Diego
[Nov 2023 – Present] Research team member at Boolean Lab, UCSD
[Jan 2022 – Present] Math Volunteer at Elementary Institute of Science, San Diego
[Jan 2022 – Present] Student Volunteer at American Youth Literacy Foundation
[June 2023 - Present] Research Intern University California Santa Cruz

EDUCATION

Canyon Crest Academy, San Diego – Sophomore, Graduation 2024
Pacific Trails Middle School, San Diego – Graduation 2020

ADDITIONAL HONORS, AWARDS, ACTIVITIES

- AI and Machine Learning. Science Internship Program, UCSC (Jun2023-present)
  - Machine learning research in UNET, GANs for medical images
- Boolean Lab, UCSD, San Diego (Nov 2022-present)
  - Research in predicting gene expressions in cancer tissues using Machine Learning techniques.
- 2023 Greater San Diego Science and Engineering Fair
  - Secured prize in Computational Biology and Machine Learning.
- Wireless Communications Network and Sensing Lab, UCSD, San Diego (Jan 2022-June 2022)
  - Research in Localization and Sensing projects using ML techniques
- Canyon Crest Academy Quest Lab (Aug 2021-Dec 2021)
  - Research in Machine Learning and Computer Vision Techniques
- 2022 Greater San Diego Science and Engineering Fair
  - Secured prize in Engineering Robotics category.
- Canyon Crest Academy Robotics Club (Software Controls) (Aug 2020-Aug2021)
  - Project leader for Data Mining - Robotics Strategy
  - Team member – Robotics Software Controls
- Canyon Crest Academy – President, Reading with FUNETIX Club (Aug 2022 - Current)
- Canyon Crest Academy – Co-President, Cricket Club (Aug 2022 – Current)
- Qualcomm Robotics Summer Camp (2019)
  - Engaged with Arduino based robotics projects.
- 2018 Science Olympiad Experimental Design - State and Regional Winner
- 2019 UCSD Summer Camp
  - PyGames: Game programming using Python.
- Hobbies – Tennis (~8 years), Cricket (Member of San Diego Cricket Club Youth Academy)
- Indian Classical Music Activities across greater San Diego and India (2015-Current)
  - Multiple National awards in Carnatic Flute, Vocal performances