

Aditya Katre

Class of 2027 at Del Norte High School in San Diego, CA / adikatre.github.io / adityad39c@gmail.com

SKILLS

Languages: Proficient in Python, JavaScript, TypeScript, HTML, CSS, SQL, Java

Frameworks & Tools: Linux, Flask, Git, Postman, Docker, VSCode, React, AWS, Railway

RELEVANT COURSEWORK

AP Calculus AB

Calculus 2

Calculus 3

AP Statistics

AP Comp Sci A & Principles

AP Physics C: Mechanics

EXPERIENCE

Independent Researcher with a Mentor from UCLA

Mar 2024 - Sep 2025

- Developed AI model and wrote a research paper titled "[Classifying Marine Mammals using Convolutional Neural Networks](#)" with a UCLA Mentor
- Published in the National High School Journal of Science (NHSJS) after a 3-peer review process.

Co-founder of Del Norte AI Club

Oct 2024 - Present

- Taught over 50 members the fundamentals of Machine Learning model development, from basic to advanced techniques.
- Covered topics in ML ranging from regression to image-classification neural networks
- Created 10 weekly challenges for members to test their skills on real-world issues

CyberAegis Linux Lead & CyberPatriot Competitor

Mar 2021 - Present

- Presented on cybersecurity topics (e.g., password policies, web server security) to 120+ CyberPatriot competitors.
- Created practice Linux virtual machines to simulate the CyberPatriot competition and test competitors' knowledge.
- Placed within the top 1% of 6,000+ teams for 4 consecutive years

Senior Patrol Leader of Boy Scout Troop 685

Sept 2024 - Mar 2025

- Led 80+ scouts in leadership, service, and outdoor skills via weekly meetings and activities.
- Organized 5+ safe multi-day camping trips.
- Taught 20+ younger scouts real-world skills using the EDGE method.

Teacher at Del Norte Cybersecurity Community Outreach Club

Aug 2023 - Present

- Created and delivered 3 internet safety and cybersecurity lessons for elementary students and seniors

AWARDS

CyberPatriot XV National Finalist (1st in Networking, 2nd Overall out of 6,000+ Teams)

Mar 2023

- Nominated Most Valuable Player
- Defended against live attacks from a professional red team in the national finals

SoCal Cyber Cup First Place (Out of 200 total teams)

Apr 2024

- Demonstrated skills in cryptography, reverse engineering, password cracking, log analysis, and web app exploitation in a CTF-style competition

Boy Scouts Life Rank

Aug 2025

- Contributed 30+ hours of community service and led 100+ scouts in troop-wide activities and outings
- Currently Building a community hub mobile app as an Eagle Scout Project