Abhinav Potineni

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Education

Academies of Loudoun & Rockridge High School   Ashburn, VA
GPA: 4.29
SAT: Math 770, Reading and Writing: 790
NMSQT Commendation for Outstanding Performance (2022) and President's Honor Roll (2019)
AP Courses: AP Latin, AP Biology, AP Computer Science, AP World History, AP US History, AP Calculus AB, AP English Language and Composition, AP Calculus BC, AP US and Comparative Government
DE Courses: English 12 DE, Theater History and Performance DE

Double-Blind, Peer-Reviewed Publications

International Journal of Scientific Research in Computer Science, Engineering and Information Technology:
- Inexpensive Detection of Substance Abuse Based on Social Media Data using Machine Learning. Publication
- Edge Technology Based Artificial Intelligence System for Ocean Patrol and Surveillance. Publication

Work Experience

Beth Israel Deaconess Medical Center   Boston, MA
Research Intern   June - August 2022
Worked under Dr Balachundar Subramaniam and organized blood samples from 900+ participants for PANDORA clinical trial and EEG study to create medical and contemplative interventions to reduce cognitive decline. Performed 8 EEG and MRI tests on meditators for BLISS Clinical Trial. Presented to 20+ scientists.

Stony Brook Medicine   Stony Brook, NY
Summer Intern   July 2022
Shadowed femoral artery bypass surgery and assisted with activities during surgery. Presented the Coronary Artery Disease (CAD) research to Department Head Dr. Tassiopoulos and incorporated the feedback to enhance the design on Assembled the aggregated Workflow of CAD Prediction, CAD Risk Scoring, Semi-Supervised Learning Enabled Hospital Readmission Prediction, and Saliency Mapping of MRA Images. Research Portfolio

Albert Einstein School of Medicine   The Bronx, NY
Research Intern   February - August 2021
Reviewed and meta-analyzed 1258 Publications on COVID's neurological complications using Rayyan.ai. Team lead for Kaggle ML segmentation competition. Edited COVID systematic review publication draft.

Substance Use Disorder Prevention System   Ashburn, VA
Founder & CEO Wtop News Healing Properties Blog Ashburn Daily CONRAD   May 2021 - Present
Built a substance use disorder prevention mobile application. Applied for provisional patent. Partnered with 2 national non-profits: "Faces and Voices of Recovery" and "To Write Love on Her Arms". Organized a Social Media Campaign (200+ posts) to end disorder stigma. Twitter FB Instagram

Drone Enabled Environment Patrol & Surveillance Edge AI System   Ashburn, VA
Co-Founder   November 2021 - June 2022
Built an environmental protection system to track illegal fishing activity through AI-based image recognition services. Collaborated with: Celebrated American Biologist Carl Safina, Oceankind founder Evan Rappaport, and UN FAO Goodwill Ambassador Chef Rodrigo Pacheco.

Volunteer Activities

Coding Made Accessible   Ashburn, VA
Founder & President Website   November 2019 - Present
Organized community STEM outreach events for 2000+ students in 200+ title 1 schools. Provided STEM education access to 3 housing authorities in Maryland by delivering science fair kits. Built a core team of 15 volunteers across 7 states to scale the impact of the work.

CONRAD Innovation   Ashburn, VA
Conrad Innovation Challenge Ambassador   June 2022 - Present
Provided resources for students competing in the CONRAD challenge.

Rockridge High School - AI and Machine Learning Club   Ashburn, VA
Founder and President   November 2021 - Present
Mentored and advised a team of 10+ high school students to advance the field of medicine through machine learning research with immediate impact and real-world applications.

Academies of Loudoun - Applied AI Club   Ashburn, VA
Officer   November 2021 - Present
Designed an AI project that 20+ club members work on collectively throughout the school year.

Awards and Grants

- Conrad Innovation Finalist & Social Media Winner. April 2022. Top 2/950 teams from 45 countries.
- State of Virginia Assembly Recognition. March 2022. 1/84,000+ students in Loudoun County.
- Congressional App Challenge (VA-10). November 2021. 3/100 of 4,000 students across 33 states.
- Ashoka Changemaker & Taco Bell Ambition Accelerator Grant. September 2022. Top 30/300. $550.
- National Society of High School Scholars, Be More Scholarship Finalist. September 2022. Top 15/2M+.
- Toshiba ExploraVision STEM Competition, Honorable Mention. March 2022. Top 93/15,000.
- World of 7 Billion, Best in State. May 2022. Top 1 in VA/4,000 students from 48 countries.
- Blue Ocean High School Entrepreneur Pitch Competition. April 2022. Top 250/750+ from 61 countries.
- National Museum's Student Ideas for a Better America. August 2022. Top 1/40 out of 350+.
- President's Environmental Youth Awards (PEYA), Participant. February 2022. 1,400+ students.
- Four-time Conrad Innovator. March 2021/2022. Top 25/2000+ from 45 countries. Health and Nutrition Category - Bias Detector/SOS280. Energy and Environment Category - Deep Seas. Smoke Free World Category - Smart Tobacco Alternative.
- Microsoft Imagine Cup, Semifinalist. March 2022. Top 1000/100,000 from 160 countries..
- UAE 2070 Health Summit. December 2021. Top 20/200.

Online Courses

Stanford University: Organizational Analysis, Algorithms, AI in Healthcare.
Duke University: Medical Neuroscience.
Imperial College London: Mathematics for Machine Learning – Linear Algebra, Multivariate Calculus, Principal Component Analysis.
SuperDataScience: Machine Learning A-ZTM: Hands-On Python & R In Data Science.

Languages

Telugu, Hindi - Native or bilingual proficiency.
Latin - Limited working proficiency.