

Parikshitsinh Jadeja

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Education

Navrachana International School Vadodara	Nov. 2014 – April 2026
Sophomore Student Studying NCERT Curriculum	Vadodara, India
• Selected Coursework: Science (086), Mathematics (041), Artificial Intelligence (417), English (184), Social Science (087), Sanskrit (119)	
• Extracurricular Activities: President of Robotics Club, Active Soccer Player, Active Chess Player, School Tech Volunteer, Student Council – CBSE Representative (Grade 9-10)	
• GPA: 3.76/4.0	

Experience

Founder & CEO	Dec 2025 – Present
Hack Club Vadodara	Vadodara, India
• Building my Vadodara First Student Led Engineering Club	
Student Researcher	Dec 2025 – Present
SSRN	
• Developed a few research papers in various fields such as – Neural Networks, Neurodegenerative Diseases Detection AI Models, Cancer Detection Theories, & Sustainable Engineering.	
Student Ambassador	June 2025 – Present
IAAC (International Astronomy and Astrophysics Competition)	
• As an Official Ambassador at IAAC India, Led Student Led Missions To Research On Exoplanets & Quantum Temperature In Space	
Railway Engineering Researcher	Sept 2025 – Dec 2025
Massachusetts Institute of Technology	
• Participated In a Highly Selective Program (180 students world wide) by LMIT & CSR known as Rail Innovation in Action, collaborated with Professors and Fellow Students To Develop Sustainable Rail Innovation	
Solar Energy & Sustainable Engineering Researcher	Aug 2025 – Nov 2025
The New York Academy of Sciences	
• Researched on Solar Energy Harvesting & Sustainable Engineering with a High School Team from Ethiopia	

Projects

EutroBot AI/ML, Computer Vision, C++, Arduino IDE, Biochemistry, Robotics & Automation, Software Integration	Oct 2024 – Present
• Built an AI powered autonomous robot to detect and mitigate eutrophication using computer vision, GPS navigation, and real time water quality sensing.	
• Implemented sustainable bioremediation, using aquatic plants to absorb pollutants and converting biomass into useful byproducts through a circular waste model.	
Open Source: Vaani Edge AI, Machine Learning, Lightweight Neural Networks, Speech Signal Processing, MFCC, Embedded Systems	Oct 2025 – Present
• Vaani is a low cost Edge AI device that analyzes speech to detect early signs of neurological disorders like ALS and Tourette. Built on ESP32 with Edge Impulse, it works offline, extracts MFCC features, and gives real time predictions, enabling affordable, private health screening for all.	
EcoCredit Computer Vision, Edge AI, C++, Arduino IDE Internet of Things (IoT), Embedded Systems, Sensor Technology, Backend Algorithms (Credit Scoring Logic), Secure Authentication & Tokenization	Oct 2024 – Oct 2025
• EcoCredit integrates IoT, embedded systems, cloud computing, mobile apps, and gamification to incentivize plastic recycling through a transparent, reward based digital credit ecosystem.	
• CNN based computer vision models verify plastic waste authenticity, while Edge AI and TinyML enable real time validation directly on smart bins.	
• Sensor fusion and backend scoring algorithms ensure accurate credit allocation, gamification, and fraud prevention across the IoT ecosystem.	

Technical Skills

Languages : Python, SQL, Julia, C/C++, MATLAB, JavaScript/TypeScript, HTML/CSS, LabVIEW, Verilog / VHDL
Frameworks: React, Next.js, Node.js, Flask, FastAPI, Docker, AWS
Libraries : PyTorch, TensorFlow, Keras, Pandas, NumPy, SciPy, Matplotlib, Seaborn, OpenCV, YOLO, Hugging Face Transformers