KEEGAN CRASTO

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EDUCATION	
R. N. Podar School, Mumbai, India.	-Present
CBSE Board Examination, Grade 12 (Ongoing) 2025	-Present
Lilavatibai Podar High School, Mumbai, India.	14-2024
ICSE Board Examination, Grade 10 20	23-2024
STANDARDIZED TESTS AND APs	
• SAT Score: Total - 1470; Math - 770; English - 700	2025
• AP Computer Science A Score: 5.	2025
AWARDS AND HONORS	
Certificate of Merit in Computer Science, ICSE Grade 10 Board Exam for scoring 100/100	2024
Gold Medal (1st Place) and Robot Design Award – World Robot Olympiad (WRO) Nationals	2024
Rookie All-Star Award – FIRST Robotics Championship World, Houston	2024
• Rookie All-Star, Engineering Excellence and Finalist Alliance Captain Awards – FIRST Robotics Championship Regionals, Türkiye	2024
Judges Choice Community Impact Award – FIRST Tech Challenge, Sydney	2023
Connect Award – FIRST Tech Challenge Nationals, India	2023
ROBOTICS EXPERIENCE AND INNOVATION	
• IRIS National Science Fair: Invented "Vision Guardian," a low-cost optical device enabling early detection of retinal diseases and improving vision accessibility in rural areas, empowering underprivileged communities through affordable eye-care technology	2025
Autonomous AI-Powered Line-Following Gardenbot	2024
-Developed an AI-vision line-following robot with Arduino Mega 2560 and HuskyLens for precise navigation and efficient, plant-specific irrigation.	Э
-Implemented a PCB to optimize power distribution and ensure reliable multi-system integration	on.
Autonomous Garden Junkbot	2022
-Developed an autonomous garden robot with Arduino Mega 2560, ultrasonic sensor, and motor driv for obstacle avoidance and automated irrigation	ers
-Integrated SIM800L GSM module to enable automated SMS/call alerts for snake detection.	2024
 World Robot Olympiad Robot Developed a LEGO Mindstorms EV3 robot with active intake/outtake systems, dual-motor drive, an custom rear press mechanism for efficient block handling and debris deposition. 	2024 ad
-Implemented ultrasonic wall-following and dual-color sensor line-following for precise field naviga-	tion.
• FIRST Robotics Competition Robot	2024
-Co-developed a robot with swerve drive, RoboRIO control, custom CAD, and mechanical assemb	
 -Programmed Java/OpenCVcore functions with Limelight vision tracking, driver testing, and troubles FIRST Tech Challenge Robot 	shooting 2023
-Co-developed a robot with GoBilda chassis, linear slide, custom 3D-printed mechanisms, supporting assembly and programmed Java autonomous/tele-op with dead wheels, encoders, IMU,TensorFlow v	g CAD
World Robot Olympiad Robot	2022
-Built a LEGO EV3 robot with dual claws, water-block deployer, and barrier-clearing chassisProgrammed ultrasonic + color sensor navigation for element classification and block placement.	2022

TECHNOLOGY AND AI PURSUITS

Research:

- <u>Independent AI Research Fellowship</u> Built a hybrid rollout framework in Panda Gym that uses a 2025 Multilayer Perceptron to partially replace physics simulation, improving reinforcement learning speed while maintaining accuracy. [Submitted to National High School Journal of Science (NHSJS) for peer review]
- Microbes in the Air Science Team Research Study

 Performed airborne microbial sampling and culture analysis across multiple environments using Impactor plates with selective agar mediums (PDA, EMB).
 Identified environment-specific microbial trends to inform air sanitation, ventilation strategies, and. public health awareness.

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Leavership and Internship.	
• <u>Head of Technology</u> – Podar Summit Model United Nations (MUN):	2025
Independently designed and built the official website, managed AV/technical operations.	
• <u>Head of Technology – Internship</u> - Prudencia Model United Nations (MUN):	025-2026
Leading technical operations, website development, and delegate registration system.	
• <u>CEO of Technology-Yuvana:</u> Leading technology operations for inter-school fest.	2025
Courses, Workshops and Summer Programs:	
• National University of Singapore -SISC 2025 Summer Camp: Science and Technology program.	2025
• MITx Introduction to Computer Science & Programming with Python: Finals-98%, 3credits (GPA 4	.0). 2021
• Harvard University – CS50's Introduction to Artificial Intelligence with Python	2025
• <u>Hindustan Times Codeathon</u> – Website Development with HTML	2020
• WhiteHat Jr – Certified Game Developer: recognized for exceptional skills in game development.	2021
Competitions:	
• 1st Place at RoboG Inter-school Competition - Autonomous AI-Powered Line-Following Gardenbot	t 2024
SOF National Cyber Olympiad: Secured 2nd Rank in school.	2021
• Google Code to Learn India Contest- Developed a game "The Takeover" in SCRATCH.	2021
• Hoonar Talent Hunt: Developed a game in p5.js: secured 4th place in school and 11th in Mumbai.	2021

- Programming & Game Development: Python, C++, Java
- Robotics: Hardware design, Autonomous navigation, AI integration
- Web Development: HTML, CSS, JavaScript

COMMUNITY OUTREACH

Church Outreach:

Skills:

Smiles & Skills – Parish Outreach for Children with Special Needs, Holy Cross Church (Kurla). 2025

- Initiated, conceptualized, and led a parish outreach for NASEOH, setting up stalls in church premises to showcase handmade creations by children with special needs.
- Created a platform where children's skills were recognized, building their confidence, pride, and joy.
- Supported livelihood opportunities as parishioners purchased their products, fostering dignity, self-reliance, and long-term community inclusion.

<u>Tech Future Bloom</u> -Robotics Outreach for Juvenile inmates, in collaboration with Prison Ministry Mumbai (Fr. Glasten Gonsalves)-Dongri Remand Home

- Initiated, conceptualized, and led a robotics outreach program for juvenile inmates, fostering innovation and skills-based learning.
- Conducted interactive sessions with live demos, presentations, and team-based robot-building challenges using DIY kits.
- Encouraged curiosity, confidence, and teamwork, while opening pathways to future careers through hands-on exposure to technology.

FRC Outreach (Team Sigma #9692):

2024

2025

• Introduced robotics to underserved schools and engaged 17,000+ students, parents, and community members through labs, fairs, and outreach events.

FTC Outreach (Team Vortex #22920):

2023

- Mentored 200+students, set up 3 school robotics labs, and led inclusive sessions for differently-able learners.
- Showcased and promoted robotics at major STEM events, reaching 28,000+ attendees across expos and academic platforms.

SPORTS ACHIEVEMENTS

SPORTS ACHIEVEMENTS	
• 1st Place – Dodge Ball, Athletica (Podar High School, Mumbai)	2017
• 2nd Place – Step Up Challenge, Virtual Sports Day (Podar High School, Mumbai)	2021
• 2nd Place – 400m Relay Race, Sports Meet (Podar High School, Mumbai)	2024
Member – School Football Team	2017-2022
• Played for Football Clubs: Kenkre, Dsouza Football Academy, Soccer Learners Club	2017-2019
• Awarded Best Player of the Tournament – Soccer Learners Club	2017
MUSIC ACHIEVEMENTS	
Member – School Music Band, performed at Annual Day Function	2022
• Piano – Grade 3, Trinity College London, Score: 92/100	2019
• Piano – Grade 1, Trinity College London, Score: 100/100, Distinction	2018
INTERESTS	

• Football (Premier League & La Liga), Music, Formula 1.