TRISHA SATYAVRAT

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EDUCATION

Aditya Birla World Academy (ABWA), Mumbai (IB) (2022-2024)
- Will appear for International Baccalaureate Diploma Program (May2024); Grade 12 semester 1 – 40/42

Smt. Sulochanadevi Singhania School, Thane (ICSE) (2010-2022)
- Grade 10 Board Examinations – 95.3%

STANDARDIZED TESTS

IELTS: 7.5
SAT: 1480 - Math-780, English-700

HONOURS AND AWARDS

- **First Robotics Competition** - Best Autonomous Drive Award - New York Regionals (04/23)
- **Oxford MUN - Co-chair – Artificial Intelligence Committee** – discussing the future of robots in the world (2022); only Indian highschooler who was invited on the executive board at Oxford University
- **2023 Mathematics - Oxford-Cambridge Immerse Education Essay** Competition (20% scholarship) essay topic-'find a relationship between mathematics and art' (10/22)
- **Honour Society** - GPA above 4.0 (2021, 2022)
- **Computer Science Highest** (2021, 2022)
- **Academic Excellence: All Subjects** (2021, 2022)
- **International Singhania Model United Nations** (2022) - ECOSOC - Best Delegate (09/22)
- **International Model United Nations** (2022) - DISEC - Best Delegate (06/22)

SCIENCE AND ENGINEERING EXPERIENCES

Research
IIT Mumbai, Chemical Engineering Department under the mentorship of Prof. K.V. Venkatesh (2023-present)
Conducted research for **Metaphase - AI based user interface website for diabetes prediction**
- Separated data sets using Python
- Engineered a model for US teen diabetic patients - one of a kind diabetes prediction model using artificial intelligence, evaluated its accuracy to be 74%

Internships
- **Citius Tech(https://www.citiustech.com)** (2022)

Artificial Application and Machine Learning on chatbots - Mr Argha Mukherjee (Senior Software Developer at CitiusTech)
- Analysed the intersection of Artificial Intelligence and consumer satisfaction
- Made a prototype of a chatbot using Python for an assumed agricultural firm in one of the states in India and pitched the idea with the team. Understood the future of chatbots with upcoming industries

Inspirit AI – Stanford University Alumni Summer Program (2022)
Team Captain - Planet Hunters project
- Used data collected from NASA's Kepler space telescope to train AI models to detect exoplanets

Innovation
Founded and built a hyperlocal platform called "Maids of Hiranandani Estate" to solve my local community's challenge of finding connecting employers to house-helps (https://maidsofhiranandaniestate.com) (06/23 - present)
- The website connects **500+ house helps** of a nearby slum with around 50k residents of Hiranandani Estate
- Enabling the house-helps to gain financial independence to ensure a **rise in minimum wages**

SKILLS *(certified courses)*

- **Web Development** with HTML/CSS - IIT Kharagpur (Ttechgyan Ttechnologies) (2023)
- **Ethical Hacking** - IIT Kharagpur (Ttechgyan Ttechnologies) (2023)
- CS50's **Mobile App Development** with React Native – HarvardX (2023)
- CS50's **Introduction to Computer Science** - HarvardX (2022)
- Summer School - UWC Mahindra - **Youth For Social Change** (2022) and **Youth, Environment and Sustainability** (2022)

ROBOTICS

Represented India as Programmer and Safety Captain for Team (#8570) – First Robotics Competition (2022, 2023)
- Learnt and used the Java coding skills to build our robot 'Ramu'
- Carried out configuration of motors, gears, Wi-Fi, robotic arm and depth cameras for the autonomous drive using Java

Computer-Aided Design and Programming Robotics at The Innovation Story (2022, 2023)
3D modelling using Fusion 360 software, Java programming

Maker Lab, SP Robotics, Mumbai (2020, 2021, 2023)
Coding a robotic arm using C/C++, Virtual Reality and Augmented Reality using C

OUTREACH AND ENTREPRENEURSHIP

Technology
Python Mentor, STEM at Avasara Foundation, Mumbai (08/22 –present)
- Teaching Java and Python (foundation) to 15 girls
- Educating them about career opportunities in STEM for girls

Environmental
'Reuse, Reduce, Recycle' (2022)
- Founded the initiative and led a group of 20 to place non-recyclable waste bins in 36 classrooms
- **Collected 1000+kgs of plastic waste** which was recycled

'E-waste Singhania' (2021)
- Led a team of 25 students to set the first e-waste collection bins in our school
- Collected **the highest amount of e-waste in any school in Thane**

Others
President and Founder, Teens For Cancer Patients United Chapter (2022, 2023)
- Raised approximately $1250+
- Funded nearly 7 chemotherapy cycles for cancer patients in Assam during the Assam floods

Volunteer Head, Jai Vakeel Foundation (2022, 2023)
- Worked with 5 differently abled students of the organization for 2 years, helping them better their tactical and reasoning skills

Board of Director, Rotary Club of Hiranandani Estate (2022, 2023)
- Conducted 2 blood donation drives; 3 clothes, blankets and cycles distribution drives; awareness campaigns about menstrual health; impacting 150+ people

Vice President, Rotary Club of Singhania (2020, 2021)
- Monthly awareness sessions about impact of waste, menstruation, climate change, disease prevention for 100+ students

PUBLIC SPEAKING

Model United Nations(MUN) (2020, 21, 22, 23)
- Chaired 4 MUNs (ISMUN, IMUN, ABMUN, Oxford MUN)
- Won Best Delegate in 11 conferences, learning about the importance of effective problem-solving and collaboration

Mentor at MUN Club ABWA (2022) Mentored a cohort of 30 students conducting mock MUNs on a weekly basis
Mentor TEDx Club ABWA (2022) Assisted 3 students write speeches about their areas of interest which included Cybersecurity using Quantum Technology

LEADERSHIP AND EXTRACURRICULARS

Head of Extempore, Happy Place, Aditya Birla World Academy (2023)
Student Council, House Editor (2021, 2022) - Won best editorial 6 out of 12 months both years
Art Grade A: Elementary and Intermediate Visual Art Exam, Maharashtra Govt

INTERESTS

- Dance: Salsa - Basics and Intermediate Certified
- Drama: Part of School Play grades 1-10, lead role grades 7,9,10
- Languages: English, Hindi, Marathi, Sanskrit