SUHAAN MOBHANI

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EDUCATION

Aditya Birla World Academy, Tardeo, Mumbai, India
- Cambridge A Levels, Grade 12   **2023 – Present**
- Cambridge IGCSE Board Examinations, Grade 10   **2021 – 2023**

STANDARDIZED TESTS AND APs

- SAT Reasoning Test: Total – 1550 ; Critical Reading – 750; Math – 800   **October 2024**
- PSAT - Total - 1480; Math 760; English 720   **October 2022**
- AP Examinations: Human Geography - 5; Calculus AB - 5;
  English Language and Composition - 4; Statistics - 5;   **2021 – 2022**
  Calculus BC - 5; Computer Science A - 5

ACADEMIC HONORS AND AWARDS

- Aditya Birla Education Trust Merit Scholarship of 100% for A Levels   **2023 – 2025**
- AP Scholar with Distinction Award   **2022**
- AP International Diploma   **2022**
- Johns Hopkins University CTY Grand Honors Awards   **2021**
- Grade 9
  - General Proficiency & Academic Excellence in all 9 Subjects
  - Highest in Additional Mathematics, Cambridge International Mathematics, Computer Science, Information & Communication Technology
  - Stellar Achievement Award for Math at International level
- Grade 10
  - School Topper
  - General Proficiency & Academic Excellence in all 9 Subjects
  - All Rounder & Stellar Achievement Award for Math at International level
  - Highest in Cambridge International Mathematics, Chemistry, Computer Science, First Language English, Geography, Information & Communication Technology
- Grade 11
  - General Proficiency
  - Academic Excellence in Mathematics (AL), Further Mathematics, Computer Science, Chemistry, Physics, Economics
  - Highest in Mathematics (AL), Further Mathematics, Computer Science

AIME - USAMO qualifier	**March 2024**
AIME - USAJMO qualifier	**March 2022, 2023**
AMC 12 - Distinction, AIME qualifier	**November 2023**
AMC 10 - Distinction, AIME qualifier	**November 2022**
AMC 10 - Distinction, 3rd place in India, AIME qualifier	**November 2021**
AMC 10 - Honor Roll, Score of 90 or above (for students in Grade 8), AIME qualifier	**February 2021**

Singapore & Asian School Math Olympiad (SASMO) Finals - GOLD	**2021-2024**
Thailand International Mathematical Olympiad (TIMO) Finals - GOLD	**2020 - 2024**
Hong Kong International Mathematical Olympiad (HKIMO) Finals - GOLD	**2020 - 2024**
World International Mathematical Olympiad (WIMO) Finals - GOLD	**2021 - 2023**
World Mathematics Team Championship (WMTC) Finals - GOLD	**2019 –21, 2023**
Siam International Math and Science Olympiad - GOLD	**2023 - 2024**

MATHEMATICS RESEARCH PAPERS & ACADEMIC WORK

Independent Research & Paper Writing (IRPW) Course at Euler Circle   **Summer 2024**
Research paper on Integer Linear Programming, highlighting the utilization of
the simplex tableau method and efficient cases for adapted problems.

Research on Weather Forecasting Patterns   **2024**
Conducted a comprehensive comparative analysis of logistic regression and advanced
machine learning techniques to improve the accuracy of weather forecasting models.

Wolfram High School Summer Camp   **2022**
Utilized Mathematica to analyze the drop in EDM songs

ONLINE & OFFLINE COURSES
Art of Problem Solving

WOOT	**Aug 2022 - Dec 2022**
WOOT	**Aug 2021 - Jan 2022**
Calculus	**Aug 2021 - Mar 2022**
Intermediate Number Theory	**June 2021 - Sep 2021**
Intermediate Counting & Probability	**May 2021 - Sep 2021**
Intermediate Algebra	**Aug 2020 – Apr 2021**
Pre-Calculus	**Apr 2020 - Sep 2020**

Johns Hopkins Centre for Talented Youth CTY

Examining the Evidence	**June – July 2019**
MathCounts Prep	**May – Aug 2018**
Inventions	**June – July 2017**

Awesome Math Summer Programme

Counting Strategies Level 2	**July – Aug 2023**
Computational Geometry Level 2	**June – July 2022**

MATH EMPOWERMENT INITIATIVES

IMTC (imtcontest.org)   **2019 – Present**
Co-Founder of Portal offering international-level math competitions for global mathletes.
Grew 6x - 200 students to 1,200 in 4 yrs.

Aditya Birla Math Club Mentor   **2022 – Present**
Mentored and trained nearly 60 students in the Math Club for AMC & WMTC while still in Grade 10.

INTERNSHIP & WORK EXPERIENCE

Hungama Digital Media Entertainment Pvt. Ltd   **June – July 2024**
Worked on Showdown feature for Bollywood Hungama's (www.bollywoodhungama.com) box office
database. Enabled users to cross-examine box office statistics of celebrities, movies, and studios.

Host of Talk Show - Back to School
Conceptualised and Hosted - Back to School - a celebrity web show on Bollywood Hungama YouTube channel.

TheCALT (thecalt.com)
Built a courseware platform with live moderation text-based classroom & graded assessments with
metrics, while teaching AMC 10 Bootcamp and developing the website and contest portal.

ALP (AMC Learning Program) (@AMCLearningProgram)
Led web development for the ALP, overseeing a team of 4-5 developers, created online course system

TECHNOLOGY & COMPUTER SCIENCE EXPERIENCES

FIRST ROBOTICS COMPETITION   **2023 – 2024**
Member of Aditya Birla World Academy's Robotics team - Binary Bolts. Created a Robot which
was showcased at New York Regionals - 7 April 2024. Won the Team Sustainability Award

COMPUTER SCIENCE RESEARCH CAMBRIDGE IPQ

Investigated self detection of generative AI as a plagiarism checking method

ONLINE COURSES IN COMPUTER SCIENCE

Python 3 from Code Academy, AI Apps with ChatGPT, Dall-E and GPT-4 from Scrimba,
Coursera Meta IOS mobile app development: Principle of UX/UI design, Programming Fundamentals
in Swift, Create User Interface with Swift UI, Version Control

VOLUNTEERING

SCOUTS **2013 – Present**

Rover & Patrol Leader of my group at 94th East Bombay Aga Hall Scouts and Guides - a part of
Bharat Scouts and Guides.

GLOBAL ENCOUNTERS **Dec 2023 – Jan 2024**

430 hours of Community Based Service Learning at Little Theatre Club Mombasa (Asiliya Africa)
as part of Aga Khan Development Network's Global Encounters camp at Mombasa, Kenya.
Taught them AI prompt engineering and digital initiatives.

MUMBAI PUBLIC SCHOOL **2023 – 2024**

Volunteered with Akanksha Foundation to impart STEM knowledge to students as an SSR initiative.

SKILLS

Programming / Scripting / Markup Languages

Python (Advanced), Mathematica (Intermediate), Java (Intermediate), C++ (Beginner), Swift (Advanced),
LaTeX (Advanced), JavaScript (Advanced), HTML (Advanced), CSS (Advanced), SwiftUI (Intermediate),
SQL (Intermediate), Flask (Advanced), SocketIO (Advanced), Express + Node (Intermediate), React (Intermediate)

INTERESTS

Languages **-** Fluent in English, Spanish, Portuguese [CIPLE A2 Level], Hindi, Mandarin [YCT 4]

Football - Passionate football player, primarily positioned as a right winger (alternatively CAM or RM)

Music **-** Avid listener and singer of pop and hip hop music, with a deep appreciation for rhythm and lyrical expression.