SATYA CHAUDHARY

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EDUCATION

Ahmedabad International School (AIS)   **Ahmedabad, India**
*Cambridge International AS & A Levels| Biology-**A**, Physics-**A**, Chemistry-**A**, Mathematics-**A**, and English*   *June 2023 – Present*
Divine Child School (DCS)   **Mehsana, India**
Central Board of Secondary Education (CBSE) | Grade 9: 98.5%; Grade 10: 96.0%   *July 2013 – May 2023*

HONORS AND ACADEMIC ACHIEVEMENTS

- Top scorer in the CBSE Board Exams in a class of 110 students, mentioned in The Times of India newspaper   *May 2023*
- Top scorer in the 9th Grade in a class of 110   *May 2022*
- Subject Topper in Mathematics, Science, Social Studies, Information Technology, and English in Grade 10   *May 2023*
- First place as Interjector among 500+ participants from 25+ CBSE schools in Ahmedabad District   *August 2022*
- Selected as the "Class Prefect", Grades 1 to 12

National and International Academic Awards:

- Distinction Award in the Hypatia Contest for placing among the top 25% of contestants
- SOF International English Olympiad (Grade 10), International Rank: 70, School Rank: 1 (Gold Medal) among 91,000+ schools
- SOF International Science Olympiad (Grade 10), International Rank: 558, School Rank: 1 (Gold Medal)
- SOF International Mathematics Olympiad (Grade 9), International Rank: 342, School Rank: 1 (Gold Medal)
- SOF International Science Olympiad (Grade 9), International Rank: 216, School Rank: 1 (Gold Medal)
- Distinction Award, SOF International English Olympiad (Grade 9): International Rank: 8; School Rank: 1 (Medal of Distinction)

MEDICINE EXPERIENCES

Deven Pathology Laboratory, Mehsana, India

Lab Assistant internship under Dr. M.A. Patel (Consulting Pathologist)   *July 2024-August 2024*

- Conducted diagnostic tests and maintained laboratory equipment
- Gained hands-on experience with WBC Differential Test, TSH Test, urinalysis, BMP, CBC, and blood tests

Doctor House, Mehsana, India

Medical Assistant Internship under Dr. Rajesh Pandya (MD, Physician)   *April 2024 – May 2024*

- Observed Dr. Pandya engage with 100+ patients over 17 days suffering from respiratory infections, gastrointestinal disorders, hypertension, diabetes, cardiovascular diseases, neurological disorders, endocrine disorders, renal diseases, musculoskeletal disorders, and dermatological conditions; understood vital sign recording pre-diagnosis and post-treatment
- Involved in room preparation activities, observed the use of automated external defibrillators in emergency situations and received basic training in CPR maneuvers through simulations and dummies

Clinical Practicum under Dr. Jagdish Khammar (MD Pediatrics, Newborn and Child specialist)   *December 2023 – January 2024*

- Managed administrative tasks like coordinating the inpatient roster, scheduling appointments and directing patients to departments
- Part of the organizing team of "Weewell Wave," a health education seminar for more than 50 patients
- Observed patient consultations and treatment planning sessions primarily with over 150 children aged 10 and under suffering from gastrointestinal infections, insomnia and sleep disorders, jaundice and meningitis; learned about vaccination regimes for infants

Medical Assistant Intern at Doctor House Mehsana under Dr. R.K Patel (MD, General Surgeon)   *May 2023 – June 2023*

- Observed Dr. Patel perform surgeries such as laparoscopic cholecystectomy, appendectomy, and hernia repair
- Learned about patient evaluations and preoperative assessments and observed communication between the lead surgeons and their surgical team, including nurses, anesthesiologists, and surgical assistants
- Studied patient notes and Dr. Patel's interactions with patients on postoperative management, including wound care, pain management, and monitoring for complications

Shadow internship under Dr. Vaibhav Chaudhary (MD, Physician),   *May 2022 – June 2022*

- Observed patient consultations and treatment planning sessions for 300+ patients over 25 days, primarily cases involving pneumonia and other post-COVID-related pulmonary infections, dengue, hypertension, type II diabetes, and GI disorders
- Observed procedures such as thoracic radiography and learned about serology, hematology and clinical pathology reports
- Learned about basic diagnoses and commonly prescribed medications for the above conditions

RESEARCH EXPERIENCE

Systematic Review of Sleep Disorders | *Independent Research*   *June 2024 – August 2024*

- Conducted a systematic review of 17 research papers on sleep disorders, presenting key findings on taxonomy, symptoms, causes, and treatment strategies
- Utilized databases including Google Scholar and PubMed, applying targeted keywords and recent publication filters to ensure comprehensive coverage of the topic and learned to use Zotero to manage papers and references

Metaverse Telesurgery Application | *Research Assistant*   *August 2023 – January 2024*
- Assisted in the development of a decentralized application (DApp) that integrates telesurgery in the metaverse environment using blockchain with a user-friendly interface with three tabs for the patient, treating doctor, and an administration page
- Participated in all meetings with the team of four, comprising one professor, one PhD student and one undergraduate student and contributed to the DApp's concepts and design
- Wrote the entire original manuscript (please refer to the "Publication" section) for submission and contributed to further revisions

PUBLICATION
- S. Chaudhary, "Sleep Disorders, Symptoms, Causes, Treatment: A Systematic Review," Curieux Academic Journal, in press, November 2024.
- S. Chaudhary et al., "Blockchain-Based Decentralized Application for Telesurgery in Metaverse Environment," 2024 14th International Conference on Cloud Computing, Data Science & Engineering (Confluence), Noida, India, 2024, pp. 492-497, doi: 10.1109/Confluence60223.2024.10463231

PUBLIC HEALTH OUTREACH INITIATIVES

Moontide | *Author*   *March 2024*
- Created "Moontide," an illustrative comic book featuring short stories that dispel myths surrounding menstruation while elucidating key scientific aspects behind it
- Collaborated with Savvy (Smart Hygeia), a menstrual hygiene product manufacturer, to support the comic book's promotion and provision sanitary pads at a subsidized cost of ~INR 3 per piece (ordered in bulk)
- Distributed copies to 837 girls in 19 schools in rural Ahmedabad, Gandhinagar, & Mehsana, targeting at least 1,000 girls in 2024

Blood Camp Drive, Mehsana, India | *Co-organizer*   *2022 – Present*
- Led annual blood donation campaigns, collecting 479 bottles in 2022, 629 bottles in 2023, and 720 bottles in 2024-recognition by the local authorities and the Mehsana Member of Legislative Assembly
- Designed outreach materials such as posters, flyers, and social media campaigns to raise awareness and attract donors
- Worked closely with nurses and phlebotomists to enforce proper procedures, donor safety, and post-blood donation care

Red Cross Community, Ahmedabad, India | *Volunteer*   *2021– Present*
- Coordinated logistics for weekly blood donation camps in Ahmedabad, ensuring smooth execution
- Took charge of preparing certificates for donors, numbering blood donation bags and matching them with the corresponding donor bottles to prevent mixing of blood samples, and addressed questions about the donation process, eligibility criteria, or side effects

COURSES AND WORKSHOPS

Major Depression in the Population: A Public Health Approach, Johns Hopkins University (Coursera)   *July 2024*
- Scored 98% in a 6-week course covering major depression, epidemiology, maternal depression, and care barriers.

Biology Meets Programming: Bioinformatics for Beginners, University of California San Diego (Coursera)   *June 2024*
- Scored 96.45%, acquired basic skills in bioinformatics analysis, algorithmic approaches, and fundamental biology concepts, and practiced basic Python programming techniques

Sleep: Neurobiology, Medicine, and Society, University of Michigan (Coursera)   *March 2024 – April 2024*
- Scored 100% with honors; learned about biological, personal, and societal relevance of sleep

Harvard Leadership Program (Harvard Model Congress San Francisco)   *August 2023*
- Completed intensive training in leadership skills emphasizing problem-solving, group collaboration, and effective communication Developed systematic approaches to address real-world challenges within contextual frameworks
- Conceptualized 'Untaxably Pink': a jewelry product featuring GPS integration; secured highest sponsorship bid among 30 students

VOLUNTEERING

TIDE Foundation, Ahmedabad, India   *July 2023 – Present*
- Spearheaded life skills education for grade 6 to 9 students at schools in Ognaj, Ahmedabad, through innovative kits and experiments, fostering deep understanding and practical application of complex concepts

SKILLS AND INTERESTS

Languages: English (proficient), Gujarati & Hindi (native), French (beginner)

Technical Skills: Python, HTML, Small Basic, Blood tests, TSH Tests, CBC Test (novice in all)

Interests: Watercolor painting, Calligraphy, Badminton