

EDUCATION**Aditya Birla World Academy**, Mumbai, India;

- *A level, Grade 12* 2025 – 2026 Present
- *Cambridge IGCSE Board Examinations, Grade 10* 2023 – 2024

STANDARDISED TESTS

- SAT: Test total - ; Math- , English-
- IELTS: 8.5 2025

ACADEMIC HONOURS AND AWARDS

- Distinction and Placed 3rd in India for AMC 12 2024
- Distinction in Avagadro's Chemistry 2024
- Distinction in Immerse Biology 2024
- 9A*s and 2As in 8th grade and General Proficiency Award along with Highest in Art and Design
- 7A*s and 2As in 9th grade and General Proficiency Award for 9th grade with Highest in Business Studies for 9th grade 2023 2022 - 2023
- 8A*s in IGCSE Board Examinations, General Proficiency Award for 10th grade and Topped the school in Business Studies and Information Communication and Technology. 2023 – 2024
- 3As and 1B in AS level and General Proficiency Award for 11th grade, Received the ABWA attribute award for being diligent and resilient 2024 - 2025
- CTY Johns Hopkins High Honours Student 2022 - 2023

CANCER RESEARCH AND EXPERIENCES*Research:*

- **Applications of CRISPR in Cancer research and treatment**, Curieux Academic Journal 2023- 2024
 - Conducted an in-depth literature review on CRISPR-Cas9 technology in oncology.
 - Published findings in Curieux Academic Journal, highlighting future directions for translational cancer research.
- **The Role of the Bone Marrow Microenvironment in Hematological Malignancies** 2025
 - Conducted an extensive literature review of peer-reviewed journals on bone marrow biology and hematological malignancies.
 - Synthesized findings on stromal cells, cytokine signaling, and leukemic stem cell–niche interactions into a cohesive research narrative.

Outreach:

- **Pre and Post Chemotherapy Volunteering**, Cama and Albless hospital, Mumbai, India 2024
 - Cama and Albless hospital is Mumbai's sole hospital that caters only to underprivileged women and children. It offers services in Obstetrics & Gynecology, Pediatrics, and oncology.
 - I first began helping out with patient preparation and education which entailed briefing them about the process, side effects and lifestyle adjustments and providing emotional support and answering questions that the patients might have.
 - I also assisted nurses in doing Health readiness checks which included pre treatment screenings like blood reports and infection checks. During chemotherapy I would help entertain children by reading story books, playing a movie, or playing games.
- **Multilingual Cancer Care Booklets**, Cama and Albless hospital, Mumbai, India 2024
 - Created cancer-awareness booklets in English, Hindi, and Marathi to bridge communication gaps for underprivileged patients and families. These booklets are handed out at Cama Hospital's cancer ward to patients and families.

Writing:

- **Interviews and Blog**, OncoInsights 2025
 - Initiated OncoInsights featuring interviews with leading oncologists to explore advancements in cancer research, treatment approaches, and patient care.
 - Authored and published articles synthesizing expert perspectives into accessible content for students, aspiring researchers, and the wider community.

BIOLOGICAL SCIENCES AND HEALTHCARE PURSUITS*Internships:*

- **RPG life sciences**, Mumbai, India 2024
 - RPG Life Sciences is an integrated pharmaceutical company engaged in the manufacture, marketing, and sale of branded formulations, generics, and APIs. It is one of the lead manufacturers of Immunosuppressants in India.
 - Worked in the lab observing and understanding API analysis, stability studies, and industry-grade instrumentation
- **Excel Diagnostics - Pathology Lab**, Mumbai, India 2025
 - Excel Diagnostics is an advanced diagnostic center that offers an extensive array of clinical and immunodiagnostic and pathology test services.
 - Assisted in diagnostic workflows by preparing blood smear slides and observing hematological analyses. Gained hands-on exposure to biochemical and pathology testing methods
- **Pharmint Pte. ltd**, singapore 2025
 - Pharmint is a global pharmaceutical B2B platform where I pursued a 6 week research-oriented internship focused on molecular biology, genome evolution, and computational biology.

- Applied core bioinformatics tools for sequence analysis, alignment, and evolutionary tree reconstruction. Designed and completed a mini-research project, culminating in the reconstruction of evolutionary relationships

Summer school:

- **Imperial College London - Global Summer School (GSS)** 2024
 - Selected for Imperial's highly competitive two-week residential programme bringing together students worldwide to experience university-level STEM research.
 - Performed advanced molecular biology experiments such as genomic DNA extraction, PCR amplification, agarose gel electrophoresis, and GFP/lacZ gene expression assays to analyze cloned genes and transgenic organisms.

Outreach:

- **STEAM Spark Foundation - Founder & Lead** 2022
 - Founded and led a youth non-profit that teaches STEM concepts to underprivileged children through interactive science experiments and art workshops, Trained and led 8 volunteers
 - Designed and delivered hands-on workshops using individual science experiment kits, easy to understand videos, worksheets and art projects and Field trips
 - We reached around 1650+ children across 20+ schools in Mumbai and raised \$2600 for funding
- **Chingari Shakti Foundation Ambassador & Volunteer** 2022
 - Chingari Shakti Foundation is a national leading NGO working for Education, Healthcare and Women Empowerment across rural and urban India.
 - Organized and led HIV awareness workshops conducted multiple sessions on menstrual/reproductive health. Served as a foundation ambassador and got 15 new volunteers.

Research:

- **Research Paper - Applications of TENGs for Enhanced Self powered Gait Sensing in Ballet Pointe Shoes** 2025
 - Authored an interdisciplinary paper combining biomechanics, materials science, and Ballet dance to explore wearable sensing technologies in ballet.
 - Investigated triboelectric nanogenerators (TENGs) as sensors embedded in pointe shoes to monitor gait, balance, and foot pressure in ballet dancers.
 - The research paper has been published to various International journals like JEI.
- **Research mentoring** 2024 - 2025
 - Mentored 10 8th/9th graders and provided guidance to help write their first literature review papers on STEM topics of their choosing, charged \$100 for each student to raise money for funding STEAM Spark Foundation.

Online courses:

- Advanced Research Writing course with Johns Hopkins University's CTY program - finished with a 95.5 %
- Introduction to Biochemistry - Edx
- Cancer Biology - Coursera

SCHOOL LEADERSHIP

- **House Captain, Student council** 2023
- **Core Organiser (1 of 7), Happy Place at Aditya Birla World Academy for Mental Health Awareness.** 2024
 - Led the preparations of the Event, went to numerous schools around Mumbai to give a presentation and encourage registrations for the various competitions. I was in charge of overseeing that all the competitions ran smoothly.
- Won the House Cup as house captain 2022 – 2023
- Placed 1st in the interhouse basketball and football tournaments 2023
- Placed 2nd in the interhouse Relay race for Kalidasa House on Sports Day 2023
- Placed 1st in the interhouse Streetplay competition 2023
- Placed 3rd in the interhouse dance competition 2023

BALLET ACHIEVEMENTS

- **Training**
 - Trained for 12+ years in classical ballet in RAD and ABT syllabi, completing graded and vocational examinations with merit and distinction with Bella Academy, Mumbai.
- **Teaching Internship** 2024- 2025
 - Completed a teaching internship assisting with Primary and Pre-Primary ballet classes, developing lesson plans and guiding young dancers in foundational technique.

ART ACHIEVEMENTS

- Sold paintings at two school auctions, including a record sale of ₹ 51,000. 2023 – 2024
- Artwork sold for ₹35,000 at a charity show supporting breast cancer awareness 2025
- Featured in *Lexophilia*, Johns Hopkins University's arts magazine. 2022
- Completed Elementary and Intermediate Art Examinations. 2021 - 2022
- Sold paintings to raise money for an AirVo machine at Bhatia Hospital during Covid Pandemic 2021

SKILLS AND INTERESTS

- Programming: Skilled in R and C++ with applications in data analysis and problem-solving. 2025
- Sports: Learning tennis
- Learning American Sign Language (ASL)

