

Anahita Gupta

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EDUCATION

Aditya Birla World Academy (ABWA), Mumbai

July 2024 - June 2026

- **Grade 12 A Levels:** Mathematics, Biology, Chemistry, Physics
- **Grade 11 AS:** Mathematics (A), Biology (A), Chemistry (A), Physics (A), English Language (A)

Bombay Scottish School (BSS), Mumbai

June 2023-May 2024

- **Grade 10 Indian Certificate of Secondary Education (ICSE):** Aggregate of 98.7%
- English Language & Literature (97.5%), Science (99%), Mathematics (99%), Social Studies (99%), Hindi (99%), Commercial Applications (99%),

College Board:

SAT: 1560/1600

August 2025

- Reading & Writing (770) & Math (790)

Advanced Placements:

- Macroeconomics (5), Environmental Science (5) *May 2024*
- Microeconomics (5), Psychology (5) *May 2023*

RESEARCH EXPERIENCE

Independent Researcher

May - July 2025

“Analysing Engagement in Naturalistic Music Using EEG”

<https://neuroharmony-988798124110.asia-south1.run.ap>

https://docs.google.com/document/d/11Cvz_GW85WoB1jfB-ahNV65ZIRMhcx8oBmGH0oDElhg/

- Analysed EEG data sets through statistical analysis, and developed AI models to isolate key features of music, correlating them with their impact on human emotions.
- Under the guidance of neurologist Dr Swati Jeh created an interactive web application “NeuroHarmony,” where the above data analysis was used to deduce the neurological effects of different genres of music, and offer music therapy recommendations based on scientific evidence.
- Awarded the CREST Gold Award from the British Science Association.

Independent Researcher

November- December 2024

“Understanding the Neuroscience of Play- The impact of play on brain development”

https://www.curieuxacademicjournal.com/_files/ugd/99711c_d2164e4c02d34d7f8ddbd57d3e5be97e.pdf

- Investigated the regions of the brain associated with social cognition, emotional regulation and executive function, emphasising how play shapes neural circuits and enhances neuroplasticity
- Selected for publication by the Curieux Academic Journal, April 2025, (Pages: 319-330)

Researcher, iCrest Academy, Bangalore

June - July 2024

“Effectiveness of herbal formulation as a complementary and alternative medicine for cancer therapy”

https://drive.google.com/file/d/1WA02CN_UttCCSxyHai_8y5I9p0fYFKtC/view

- Investigated the cytotoxic and anti-inflammatory effects of Herbal Formulation (HF2) on cervical cancer cells
- Demonstrated proficiency in a wide range of advanced cell culture techniques, including thawing and trypsinisation, thus ensuring the proper maintenance and growth of cervical cancer cell lines
- Conducted cell growth kinetics studies, meticulously monitoring and analysing cell proliferation over time

- Engaged in gene expression studies, gaining a deeper understanding of the molecular mechanisms influenced by HF-2 in the downregulation of inflammation (as observed by a reduction in Cox-2 levels in PCR)
- Carried out Sodium Dodecyl Sulfate-polyacrylamide Gel Electrophoresis (SDS-PAGE) to analyse protein expression, and verify the presence of specific proteins of interest

Research Intern, Molecular & Computation Biology, Sri Venkateswara College, University of Delhi *May - June 2024*

- Gained in-depth understanding of the central dogma of molecular biology, techniques involved in recombinant DNA Technology, bioinformatics, and several key databases pertaining to microbiology
- Studied the computation tools used to retrieve gene sequences, protein sequences, perform sequence homology, and design PCR primers
- Conducted important microbiology laboratory procedures, including isolating plasmid DNA from bacterial culture, using restriction enzymes, and performing PCR, SDS PAGE, RNA & DNA isolation, and Bradford's analysis

ACADEMIC HONORS & ACHIEVEMENTS

CREST Awards, British Science Association *September 2025*

- Gold Award for “*Analysing Engagement in Naturalistic Music Using EEG*”

AS Level Awards, ABWA *July 2024 - May 2025*

- Awarded for securing the Highest in Mathematics, scoring 99%
- Awarded for Academic Excellence in Mathematics, Physics, Biology, Chemistry, and English
- Awarded for General Proficiency

British Biology Olympiad, UK Biology Competitions *February 2025*

- Awarded the Silver Medal, ranked in the top 10% internationally

AP Scholar with Honour Award, College Board *October 2024*

- Scored 5 in Psychology, Environmental Science, Microeconomics, and Macroeconomics

ICSE Board Examinations, Council for the Indian School Certificate Examinations *August 2024*

- Awarded the National CISCE Certificate of Merit, Hindi, ranked in the top 0.1% across India

ICSE Board Examinations, BSS *July 2024*

- Awarded for securing an aggregate of 98.7%
- Awarded for securing the highest in Hindi (99%) and Commercial Applications (99%)

Grade 9, BSS *June 2023*

- Awarded for being one of the top 10 rankers with an aggregate of 92.75%

John Locke Institute Global Essay Prize, John Locke Institute

- Commendation, Psychology Category (Prompt: *What is self-deceit?*) *October 2025*
- Distinction, Psychology Category (Prompt: *Can happiness be measured?*) *September 2023*

LEADERSHIP AND SOCIAL IMPACT

Founder, Science Brought 2 Life, *Mumbai* *April 2024 - Present*

Science Brought 2 Life is a non-profit that promotes the spirit of scientific inquiry among underprivileged children across Mumbai and Pune.

- Conceptualised and developed low-cost science experiment kits based on concepts of Acids and Bases, Germination, and Magnetism, to encourage scientific exploration and experiential learning among underprivileged children
- Promoted intellectual curiosity in over 1650 young minds by distributing these kits across key learning partners, including Pratham Foundation, Akanksha Foundation, Angel Express Foundation, and Vidya Foundation
- Conducted in-person teaching workshops for students in batches of 20+ to guide and lead them through these experiments

Founder, Toys for Joy, *Mumbai* *May 2024 - Present*

Toys for Joy is a non-profit working to spread happiness and hope in the hearts of children receiving treatment for pediatric cancer at the Tata Memorial Cancer Hospital and SRCC Children's Hospital, Mumbai.

- Brought smiles to the faces of over 2000 brave children by handing over 2000+ toys collected through regular donation drives
- Joy partners include Bal Asha, an orphanage in Mumbai, and Mercy Home for Boys and Girls, Chicago.

Founder, Speravi, *Mumbai*

September 2024 - Present

Speravi is a green enterprise working to reduce glass waste by transforming used glass objects into unique soy wax candles.

- Created a collection of hand-poured soy wax candles using discarded glass bottles and containers
- Self-learned fundamentals of marketing and accounting to draft the business plan for this initiative
- Independently managing the Instagram handle @speravicandles
<https://www.instagram.com/speravicandles?igsh=MTJ0eDJ5bGlnXg1cQ==>
- Sold 350+ candles using social media, with approximately Rs. 74,500 in sales; the profits generated were utilised to support the initiative 'Science Brought 2 Life'

Young Hero, Cuddles Foundation, *Mumbai*

May 2023 - Present

- Ran a 10k race in the Tata Marathon 2025 in support of the Cuddles Foundation, raising Rs 32,900 towards providing nutritional support for children fighting cancer at over 40 hospitals across India
- Raised Rs 35,000 through fundraising to help children fight childhood cancer

Fellow, Counter Speech Fellowship Program, Young Leaders for Active Citizenship, *Online* *October - December 2022*

- Worked in a cohort to develop an online platform, Nazariya, which used the mediums of poetry, music, and art to empower teenagers towards combating mental health issues like anxiety and depression

EXTRACURRICULAR ACTIVITIES

Music

2013 - Present

- Completed Grade 6 in Piano, Trinity College London, with Distinction (*January 2023*)
- Preparing for Grade 8 in Piano (*November 2025*)
- Trained at Online Summer and Winter Camp - The Juilliard School (*2021, Middle School*)
- Completed Grade 6 in Vocal Singing, London College of Music (*December 2024*)

Speech & Drama, Trinity College London

2012 - 2024

- Completed Grade 8 in Speech and Drama with Distinction (*September 2024*)

Long Distance Runner, Independent

2023 - Present

- Training under international athlete Ayesha Billimoria at The Athletics Lab since Oct. 2023
- Participated in multiple long-distance races, including the TATA Mumbai Marathon 10km, 2025 (*5th Rank, Women-15-24 age group*), and the Bandra Mumbai Marathon, 2025 (*2nd Rank, Women, 21 km*)

Author, "Ripples," a science-fiction novella

2023-2025

- Self-authored Ripples, a science fiction novella that navigates the fifth dimension while exploring the themes of betrayal, love, and loss
- Published by Heritage Publishers in 2025, selling 150+ copies on Amazon India <https://amzn.in/d/bJCFH2E>
- Shortlisted for the JK Paper Auther Award for Best Manuscript, 2024, a national initiative jointly presented by JK Paper Limited, and The Times of India to recognise female authors (14-18 years)

SKILLS & INTERESTS

Interests: Zine making, Star Wars trivia, Calligraphy, Crafting matcha drinks, and Candle making

Skills: Python programming, Critical thinking, Entrepreneurial skills, Laboratory skills and Leadership skills