

Aayan Chopra

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EDUCATION

Heritage Xperiential Learning School, Gurugram, Haryana, India

2022 - Present

- CBSE, Grade 12 - 2026: Economics, Business Studies, Accounts, Mathematics, and English
- CBSE, Class 10 - 2024: Social Science, Science, Mathematics Standard, English, French
- Number Theory, Stanford ULO - 2025: A (99%)

Standardized Testing

- SAT: 1520 (780 Mathematics; 740 English)
- APs: Calculus BC - 5, Microeconomics - 5, Psychology - 5; AP Macroeconomics (2025); AP Statistics, AP Environmental Science (pending, 2025-26)

AWARDS AND HONOURS

International and National:

- Finalist, The Better India Showcase for Young Innovators (2025) — Selected as 1 of 5 nationally from 3,000+ nominations; recognized by the Prime Minister of India as part of national platform highlighting youth-led innovations with significant social and environmental impact (2025)
- Gold Medalist and Finalist, Hong Kong International Mathematics Olympiad (2025); Gold Medalist and Finalist, International Mathematics Olympiad Competition of Southeast Asia (IMOCSEA) (2025)
- Received AP Scholar Award for 5/5 in 3 AP examinations (2025)
- Received High Commendation as Finalist for John Locke Essay Writing Competition in Economics (2025)

School:

- Class Valedictorian, Grade 11 - Ranked 1st in class for overall academic performance (2025)
- Grade Topper, Accountancy — Achieved highest score in the subject across grade (2025)

ENVIRONMENTAL LEADERSHIP

Founder, Project Surya Chakra (<https://projectsuryachakra.com/>)

2024 - Present

- Founded and scaled a clean energy initiative enabling 15 rural wheat mills to replace diesel with solar power
- Developed a financial model that made solar adoption viable and secured organized lender financing for first time borrowers with no prior access to formal credit
- Reduced diesel fuel consumption from 9.6 liters per day to 1.92 liters (savings of approximately INR 24,000 per month per user); produced 14,400 kWh of clean energy, reduced 35,000+ kgs of CO2 emissions per annum. Enabled financial inclusion of first time borrowers by getting their solar plants financed by organised lenders.
- Onboarded 15 solar-powered *atta chakkis* total; interacted with mill owners and operators, understood and worked towards addressing on-ground challenges and building roadmaps for the future
- Developed video based instructional modules to train 5000+ rural operators in solar panel maintenance, addressing degradation issues identified through research

NATIONAL RENEWABLE ENERGY LITERACY PROGRAMME

Founder, Surya Shakti

2024 - Present

- Designed “Surya Shakti: National Renewable Energy Literacy Programme” for students aged 12–18; developed curriculum on renewable energy foundations, emphasizing solar energy and created lessons explaining how solar panels work and their applications
- Highlighted environmental, economic, and social benefits of solar energy
- Used interactive, age-appropriate teaching methods to engage students
- Promoted awareness and adoption of clean energy practices among youth

LITERACY PURSUITS

Head Librarian, Library Internship Program - Heritage School, Gurugram

2024 - 2026

- Selected for Library Internship after selective interview and group discussion process (2024-2025); selected after rigorous application process as Head Librarian (2025-2026)
- Planned and handled logistics for ‘Kevalya Reading Rally’ to encourage recreational reading in middle school students
- Stimulated an increase in library footfall through ideas such as a reading passport and a blind date with a book
- Organized book reviews, events, and incorporated student requests into library acquisitions
- Ideated and implemented categories in library, including LGBTQ+ reading section
- Led Book Exchange and Book Donation programs, engaging students from disadvantaged schools and promoting library access

ENVIRONMENTAL STUDIES AND ECONOMICS RESEARCH

Internship, Metafin Cleantech Finance (virtual) 2022 - Present

- Undertook research-based internship with Metafin Cleantech Finance; undertook site visits for on-ground data collection, assisted in data analysis; compiled research reports to track per-unit impact of solar-powered mills

Research Paper under Mentor Prof. Sangeeta Relan, Delhi University 2024 - Present

- Authored “The Impact of Solar Panel Implementation on Rural Communities in India: A Case Study of Atta Chakkis” under Metafin Cleantech Finance (solar financing loan agent based in Mumbai, Maharashtra)
- Surveyed 102 solar-powered atta chakki (wheat mill) users, collected data from 2000 projects across 1250 sites in rural India; studied impacts of installation of solar panels on efficiency and operations related to *atta chakkis*, day-to-day lives of operators in terms of social dynamics and quality of life

Research Papers on Solar Energy Utility & Finance June 2025 - Present

- Researched and wrote two research papers focused on:
 - (i) “What patterns emerge in loan uptake, repayment behavior, and solar energy utilization among Metafin borrowers from 2020 to 2024, and how do these vary across different Indian states and business types?”; findings informed renewable energy financing strategies
 - (ii) How effective are carbon pricing mechanisms (carbon taxes vs. cap-and-trade) in reducing CO₂ emissions across OECD countries?; features on Metafin social media including [Substack](#) & [Medium](#)

MATHEMATICS ENRICHMENT

“Number Theory”, offered by Stanford ULO June 2025 - July 2025

- Completed university level program in Number Theory exploring topics including Euclid's algorithm, divisibility, prime numbers, theorems of Fermat, Euler, Wilson with highest grade attainable of A (99%)

“Introduction to Statistics”, offered by Stanford via Coursera October 2024 - February 2025

- Completed 12-module course in foundational Statistics, exploring topics including Descriptive Statistics, Sampling and Randomized Controlled Experiments, Probability, and Multiple Comparisons

“Introduction to Mathematical Thinking”, offered by Stanford via Coursera April 2025 - Present

- Completed 9-module course on applications of mathematical thinking across applications, exploring topics including analytical process, mathematical treatment of infinity, mathematical proofs, and number theory

BASKETBALL ACHIEVEMENTS

Captain, Basketball Team - Heritage School, Gurugram 2023 - 2024; 2025 - 2026

- Participated as State-Level player in the Jind State Under-17 Boys Tournament
- As Captain of the school Basketball Team (2023), led team to First Place at LIS Cup; Third Place at SFA (Sports For All) Tournament, representing Gurugram; participated in the IBSO (2022)

EXTRACURRICULARS

Volunteer, DLF Engage June - July 2024

- Completed 1-month volunteer teaching program in Mathematics, working with students of ages 10-16, creating interactive learning opportunities and designing specialized learning plans for all students

Class Representative, Student Council - Heritage School, Gurugram 2022 - 2023

- Selected as part of Student Council to contribute to and manage overall classroom decorum and provide support to students for day to day challenges; curated and enhanced the aesthetics of the classroom

Participant, Speech and Debate - Heritage School, Gurugram 2021 - 2024

- Undertook 4-month training at Speech and Debate India (2024); served as member of Debating Society (2021-2024): awarded Drishtikon Debate Champion at Heritage Xperiential Learning School, Gurugram (2023) and Heritage School, Rohini (2023); featured in the debate showcase (one of 8 out of 2000 participants) at WSC (2024)
- Served as member of MUN Society (2021-2022); received 2 Verbal mentions at XMUN

Actor/Model, Puma; Byjus; Independent Films 2019, 2024

- Featured in Puma ‘Let There Be Sport’ campaign (2024) [[link](#)]; featured in Byjus campaign (2019)
- Acted in *The Last Drop*, selected for Panasonic Filmfare Festival (2025) and the KWN Global Summit [[link](#)]; Despair to Repair (2024) [[link](#)]

INTERESTS

Renewable Energy and Sustainability; Research and Data Analysis; Reading and Literature; Acting; Basketball