

# Devasya Agarwal

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## EDUCATION

<b>Modern School Barakhamba Road, New Delhi, India</b>	2012-Present
• CBSE Grade 12 Board Examination	2024-2026
• CBSE Grade 10 Board Examination	2024

## STANDARDIZED TESTS AND APs

• APs: Calculus BC 5, Macroeconomics 5, Environmental Science 5, Microeconomics 5	2025
• <b>Standardised Testing: SAT- English - 770, Math- 780 ; Overall- 1550</b>	2024
• <b>IELTS</b>	

## ACADEMIC HONORS AND AWARDS

### *School and National Awards:*

• On Duty Prefect at School, Highest Leadership Honour at School	2025
• Jamshed Shroff Trophy for the Best Debater of the Year (1/379)	2025
• Principal's Prize for Outstanding Student (Top 5/379)	2025
• Consistently ranked in the top 12%, with PTA Awards for excellence in Economics, English, and Mathematics across grades 9-11 (top 1/379 in the subject)	2021-2025
• Best Presentation for the Sardar Bhagwant Singh Research Project	2024
• Nominated to deliver a speech at The Parliament of India, representing the school, (1/1000)	2025

### *International Awards:*

• AIME invite, top 7% in AMC 10	2023-2024
• AP Scholar with Honour	2025
• Distinction: Fermat, Euclid, and Pascal, CEMC, University of Waterloo	2023-2024
• Shortlisted for the John Locke Institute Essay Competition (Economics, 2025) for the essay titled "Should Oxford lower its admission standards for the sons and daughters of generous benefactors?"	

## AFFORDABLE HOUSING EMPOWERMENT AND OUTREACH

<b>Founder, Gharsahyog</b>	2025
• Founded Gharsahyog, a platform helping users discover verified government housing schemes and affordable house listings across Delhi NCR and nearby regions.	
• Provided bank support and end-to-end guidance—from selecting suitable homes to securing loans and finalizing allotment agreements with developers.	

## ENGINEERING EXPERIENCES

### *Research:*

<b>Author, 'Optimisation of formwork systems for efficient concrete construction in midrise buildings'</b>	2025
• Investigated and developed optimised formwork systems to enhance the efficiency and safety of concrete construction in midrise buildings with focus on resource management and structural performance.	

<b>Author, 'Predicting the Structural Evaluation Rating of Bridges using Machine Learning'</b>	2025
• Applied regression models to the National Bridge Inventory dataset to analyze the impact of factors such as bridge age, material, traffic load, and service type on structural ratings and reconstruction needs	
• Developed predictive models to assist in infrastructure maintenance planning and resource allocation	

<b>Author, Decluttering Paharganj</b>	2025
• Conducted demographic, housing, and micro-market analyses to propose sustainable redevelopment strategies for 25,000 households without displacement.	
• Designed a product mix including residential complexes, commercial spaces, hotels, green areas, and infrastructure, ensuring both livability improvements and financial viability	

### *Educational Videos:*

<b>Creator, Inside Construction</b>	2025
• Produced a series of educational videos demonstrating essential steel and concrete construction techniques to inform and educate industry professionals and students on best practices and practical methods	

### *Internships:*

<b>Urban Development Intern, IPE Global</b>	2025
• Conducted research and analysis to support urban planning strategies for slum-free development in Delhi's Paharganj area	

### **Tech Intern, AU Real Estate & Steady Stone**

• Developed 6 marketing videos with documentation on process excellence, for brand credibility, with hands on exposure at active sites.	
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## DEBATERS OF INDIA AND MUN EXPERIENCES

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**Co-Founder, Debaters of India** 2023-2025

- **Vice President (2023–24):** Led the planning and execution of the *DOI x Suncity School Debate* with 150 participants and 25 hours of competitive debating;
- **President (2024–25):** Oversaw the *DOI x Pathways World School Junior WSDC Championship* featuring 40+ teams and 150 participants from across India; hosted finals before a 300-person audience and Oversaw the *DOI x Modern School Vasant Vihar Annual Middle School Debating Championship* featuring 30+ teams and 100 participants from across India; hosted finals before a 200-person audience.

**Debates:** 2021-2024

- Winner & Champion Titles: 1st Place, Tamil Nadu Debating Championship (Grades 6–9, IIT Madras); Novice Champion, Asian World Schools Debate Open 2023; Winner, Young Ideators Conclave 2024 (Birla Vidya Mandir, Nainital), Champions, Llewelyn Quest National Debate 2025

**Model United Nation (MUN):** 2022-2025

- Best Delegate Awards: ECOSOC, Mayo College Girls' School MUN 2025 and UNGA, Inter-School MUN 2024 (Modern School, Barakhamba Road), High Commendation, Lok Sabha, Lotus MUN 2023.

## STEM PURSUITS

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**Scholars Program, Inspirit AI** 2024

- Designed and implemented an NLP model to analyze sentiment in financial news and enhance stock market prediction accuracy, an initiative focused on applying machine learning to real-world problems.

**Young Technology Scholars, Plaksha University** 2024

- Built a robotic system using hardware and programming to test soil moisture, nutrient content, and other quality indicators, applying computational methods to environmental sustainability.

**Founder and Editor in Chief, The Engineering Newsletter ([theengineeringnewsletter.com](http://theengineeringnewsletter.com))** 2024-2025

- Founded and authored a bi-monthly newsletter (12 volumes) to help high school students explore the breadth of engineering disciplines and identify areas of specialization

**Organizer, Factory Visits** 2025

- Spearheaded the organization of educational factory visits, including Dorset India, KL Rathi Steels and The Sunflower for high school students from state funded schools giving them a firsthand experience of manufacturing processes, engineering workflows, and product design

## LEADERSHIP AND SERVICE

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**Team Leader and Participant, Round Square Conferences**

- Co-constructed a classroom in Ladakh using vernacular methods (taalu timber framing, cement bricks) adapted for high-altitude conditions in coordination with local artisans and engineers to ensure climate- and resource-appropriate design.

**Treasurer, Kitaabghar Public Library, Dasna** 2022-Present

- Oversaw finances, including budgeting, fundraising, and allocation of resources, for a community initiative repurposing an unused center into a public library

**School Leadership:**

President, Science Club & Debating Society

On-Duty Prefect, Modern School Barakhamba Road, Highest Leadership Honour in School

## DISCUSSIONS AND DISCOURSES

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**Girish Virk at Credit Suisse** 2023

- Learned to build and analyse an analysis sheet on companies listed on the stock market and decide if the stock fits the client's portfolio with enhanced understanding of financial markets.

**Arun Ajit at IPE Global** 2025

- Authored a white paper re-envisioning urban planning in Paharganj, New Delhi, under the mentorship of Urban Planner Arun Ajit, IPE Global

**Yan Qinghan**

- Authored a research paper titled "The Role of Customer Relationship Management in the Airline Industry" (2024), analyzing how CRM practices impact profitability, customer retention, and demand stability through personalization and loyalty strategies.

## SPORTS

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**Cricket and Golf**

- Cricket: secured first place in the Inter Modern U-14 Cricket Tournament (Nov 2022), including two Man of the Match awards and the Best Bowler of the Tournament U-14 title.
- Golf: Dedicated ~10 hours per week to training, achieving two *hole-in-ones* within first year of practice

## SKILLS

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**Languages:** English (fluent), Hindi (fluent)

**Computer:** Microsoft Office, Mac OS