

SARTHAK DHOLE

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EDUCATION

Jayshree Periwal International School, Jaipur, India	Apr 2025 - Jul 2027
International Baccalaureate Diploma Programme, Grade 12	
St. Paul International School, Nagpur, India	Aug 2023 - Mar 2025
All India Secondary School Examination, Grade 10	
The Ohio State University, Summer Linguistics Institute for Youth Scholars	Jun 2026
Non-Trivial Fellowship	2026

STANDARDIZED TESTING

SAT: 1570/1600, Math: 800; Reading and Writing: 770	2026
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ACADEMIC HONORS AND AWARDS

School

- **IBDP Merit Scholarship, JPIS:** \$32,000; 1 of 3 awarded annually, covering tuition and housing (2025-2027).
- **Grade 11 Topper:** 42/42 with 4 HL subjects (2026).
- **Outstanding JPite.**
- **Abhimanyu Ranawat Memorial Trophy for Excellence in Science.**
- **Best Social Initiative,** for BetterTGT.

International

- **International Philosophy Olympiad (IPO):** Bronze Medal, 10th out of 118 finalists from 55,000+ competitors across 57 countries (2026), India's first medal since 2019; Honorable Mention (2024); represented India three times by ranking 1st nationally each year (2024-2026).
- **AIME:** Distinction; qualified for USA(J)MO. **UKMT Senior Mathematical Challenge:** Gold.
- **UNESCO Baltic Sea Philosophy Essay Event:** Best in India twice.
- **International Economics Olympiad:** Team India; National Rank 2 (2025), Rank 10 (2024).
- **USA Biology Olympiad** and **British Biology Olympiad:** Gold Medal in each.
- **National Standard Examination in Biology:** 2 $\times$ top 1%.
- **Cambridge Chemistry Competition (C3L6):** Gold and International Rank 4.
- **Indian National AI Olympiad:** National top 35; selected for the National training camp for the International Olympiad in Artificial Intelligence.

SCIENTIFIC RESEARCH AND EXPERIENCES

International Young Physicists' Tournament (IYPT), Team India	2024, 2026
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IYPT is a research and debate competition for high school teams, known as the "Physics World Cup."

- Represented India at the 37th and 39th IYPT; researched six open-ended physics problems. Honorable Mention for Team India. Set India's highest-ever Individual Score. Invited as Team India Leader for 2027.

Hybrid AI System for Alopecia Areata, Researcher under Dr. Tapre	2025-2026
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- Combined CNN segmentation and a density-corrected SALT score with a load-cell prototype to measure hair tensile strength; developed a Hair Strength Index. Paper accepted to Springer LNNS (Scopus).

Nano Biophysics Group, SVNIT Surat, Research Intern under Prof. D. Roy

Sardar Vallabhbhai National Institute of Technology (SVNIT), Surat, is an Institute of National Importance.

- Investigated density functional theory models of (ZnO)_n nanoclusters (n = 6-42) binding levofloxacin to evaluate drug carriers; co-authoring a paper.

FOLK ETHICS AND CONSERVATION

Kathā-Van, Founder and Researcher	2024-Present
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- Led five volunteers in outreach to 60+ families at Mukundara Hills Tiger Reserve; documented local folklore through fieldwork, including in Pachran village, Akola.
- Turned folk ethics, sacred species and local parables into conservation campaigns using street plays, games and posters with the Forest Department; recognized by the Indian Forest Service.
- Secured \$6,000 in grants from **Non-Trivial** (<1% acceptance), **Emergent Ventures** (Tyler Cowen) and **gradCapital**; awarded a full scholarship to The Knowledge Society.

PHILOSOPHY AND EDUCATIONAL INITIATIVES

Philosium, Co-founder and Journal Editor-in-Chief

2023-Present

www.philosium.com

- Built a UNESCO-recognized International nonprofit registered in Korea, reaching 10,000+ students in 60+ countries through a student journal, clubs, reading groups, roundtables and symposia.
- Organized symposia in Budapest, Tokyo, Kleszczów and Makarska; established a mentorship programme for first-time teams at IPO. Collaborated with ELTE, the University of Tokyo, EA Japan, and Profs. John Norton and Varun Bhatta.

The Second Question, Curriculum Designer

2025-Present

- Designed philosophy and ethics lessons for science classes in Grades 6-8 under Dr. Debi Talukdar (PLATO and University of Washington); reached 1,200+ students at three schools in Jaipur, including JPIS, with three more schools in pilot.
- Inducted into the PLATO Student Advisory Council; advised on philosophy access and edited the 25th and 26th editions of *Questions*.
- Made philosophy accessible to 30,000+ Memesletters readers via memes and pop culture (paid work).

COMMUNITY OUTREACH

BetterTGT, Co-founder

- Ran art workshops for 2,500+ children across religious, ethnic and migrant communities in India and Slovenia; coordinated an exchange for 30+ children and International Day of Peace in Ptuj with the Indian Embassy.

HEADSPACE, Founder

2025-Present

- Built an alopecia support group for 150+ patients in four cities with 15+ partner hospitals; led hybrid meetings on relapse, self-esteem and social stigma. Commended by the Indian Medical Association and Ministry of Health and Family Welfare.

SCIENCE TECHNOLOGY AND RESEARCH ACCESS

International Genetically Engineered Machine (iGEM)

The world's largest synthetic biology competition, with 440+ teams.

- **IISc Bengaluru (2026)**: Only high school student on the MOSKATEER team; flux balance and PDE modeling for an engineered-bacteria ovitrap targeting malaria.
- **JPIS (2025)**: Dry Lab Captain, India's first high school team; modeled GreenAqura, a synthetic-biology water treatment project; fundraised through a bioethics debate with India's largest debate organization.

Project Nexus, Founder and President

2025-Present

- Organized 30+ practice "friendly" science fights for IYPT and IYNT National teams. Mentored 100+ students across 14 states through workshops, a two-month National competition, and a lab pooling network.

LingHacks, Executive Director

2024-Present

- Revived the computational linguistics hackathon with a 16-member team; ran LingHacks VI for approximately 400 participants with 40+ mentors and judges. Trained 2,000+ students through 25+ global chapters, NLP workshops and AI ethics programs.

FRC Team Kaizen #10428

2025-2026

- Developed physics models of the robot's shooter flywheel to inform its shooting mechanism and led strategy for autonomous operation; team earned Excellence in Engineering twice. Dean's List Semi-Finalist and sole rookie nominee.
- Raised \$16,000+ for six government school robotics labs and trained 600+ students; authored a STEM teaching guide to support school robotics outreach, recognized by Rajasthan's Education Minister.

Canvas8: Paid Gen Z advisor to Google; 1 of 32 selected (~2% acceptance).

Membership: New York Academy of Sciences (NYAS).

SCHOOL LEADERSHIP AND PUBLIC ENGAGEMENT

- **School Captain, JPIS (2025-2026)**: Elected by 2,500+ students; mentored 20+ juniors and collaborated with teachers on curriculum design.
- **Head Boy, St. Paul (2024-2025)**: Led weekly ethics discussions for approximately 600 students.
- **EduVisa, Community Manager (2023-2025)**: Supported free high school admissions resources used by thousands.
- **Talks**: Speaker, Models, Meaning, and Misguidance: AI Ethics in the New Age of Influence, LingHacks VI (June 2025). Panelist, APA/PLATO: Civil Dialogue and Citizenship (October 2025).

LANGUAGES

Fluent in English, Marathi and Hindi.