

# SARTHAK DHOLE

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## EDUCATION

### Jayshree Periwai International School, Jaipur

Apr 2025 – May 2027

*International Baccalaureate Diploma Programme (IBDP)*; Semester 1: 41/42

Higher Level: Physics, Chemistry, Biology, Mathematics AA; Standard Level: English A, Hindi B

\$32,000 full merit scholarship for tuition and boarding

### St. Paul International School, Nagpur

Aug 2023 – Mar 2025

*All India Secondary School Examination (AISSE)*; CGPA: Grade 10 – 9.14; Grade 9 – 9.96

PSAT 8/9: 1370/1440 [Math: 720/720]

## TECHNICAL/LANGUAGE SKILLS

**Programming/Scripting Languages:** Python (NumPy, SciPy), MATLAB/Octave

**Libraries & Tools:** OpenCV, scikit-image, pandas, matplotlib, LaTeX (Overleaf)

**Languages:** English (Fluent), Marathi (Native), Hindi (Fluent)

## PUBLICATIONS AND SCIENCE FAIRS

### International Conference of Young Scientists (ICYS)

2024, 2026

- *Enhancing the Efficiency of the Dye-Sensitized Solar Cell and Possible Applications* – Bronze Award (Jury Presentation) and 3<sup>rd</sup> Place (Poster) in the Engineering Category at the 30<sup>th</sup> ICYS (2024, Türkiye); selected as 1 of 6 students (youngest) to represent India.
- *A Hybrid AI System for Distinguishing Alopecia Areata from Trichotillomania and Automating Disease Severity Assessment* – Selected for 32<sup>nd</sup> ICYS (2026, India). **Abstract.**

The latter was also selected for the **Indian Science and Engineering Fair (INSEF)** regional fair (Jan 2026).

## SELECTED AWARDS

### International Young Physicists' Tournament (IYPT)

2024

- Represented India at the 37<sup>th</sup> IYPT (2024, Hungary); national top 5; youngest team member.
- Highest individual score in Indian participation history at the tournament.
- Juror for national selections (InYPT) 2025; mentored the first Indian team to win an award at the tournament (2025, Sweden).

### International Philosophy Olympiad (IPO)

2024, 2025

- Honorable Mention at the 32<sup>nd</sup> IPO (2024, Finland); ranked 20<sup>th</sup>/114; youngest awardee.
- Ranked 1<sup>st</sup> nationally and selected to represent India at the 33<sup>rd</sup> IPO (2025, Italy).

### International Economics Olympiad (IEO)

2025

- 1 of 5 in Team India at 8th IEO (2025, Azerbaijan); youngest member.
- Ranked 2<sup>nd</sup> nationally (2025) and 10<sup>th</sup> (2024) after 2 tests and an interview (from ~15,000 students).

### FIRST Robotics Competition (FRC)

2025

- Dean's List Award Semi-Finalist; selected as 1 of 2 nominees from a 22-member school team.

### International Genetically Engineered Machine (iGEM)

2025

- Dry Lab Leader of India's first-ever high school team at the iGEM Jamboree (Paris).

### Indian National Artificial Intelligence Olympiad (INAIO)

2025

- Attended the national training camp (for IOAI); top 35 nationally after two rounds of examinations.

## Standard Mathematics Competitions

2023–25

- USAJMO-qualifying score in AIME, after qualifying through American Mathematics Competition (AMC).
- Gold Award (top 11%) in the UK Math Trust Senior Mathematics Challenge (SMC).
- Gold Medal in the International Junior Mathematics Olympiad (2024, Türkiye).

## Standard Science Competitions

2023–25

- Gold Award in USABO-Asia and British Biology Olympiad.
- 2<sup>nd</sup> (2025) and 10<sup>th</sup> (2024) in the International Medicine and Disease Olympiad (IMDO).
- Gold Medal as Indian delegate in Science at the Asia Science and Maths Olympics (2024, Cambodia).

## PROJECTS

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### SCI BRIDGES

*President (2025–Present), India Chapter Head (2024–25)*

International research democratization initiative

working through PhD-style research tournaments (*IYPT, IYNT*)

- Facilitated lab access for students from diverse socio-economic backgrounds across **12 countries**.
- Crafted IYPT role guides and problem resources adopted across nationals; organized 40+ alumni-mentored workshops and 30+ practice tournaments, impacting ~2,500 student researchers.
- Supporting India's 1<sup>st</sup> International Young Naturalists' Tournament team by organizing the nationals.

### PHILOS IUM

*Co-founder and Executive Director (2024–Present)*

Global philosophy education platform

- Designed and led a modular pre-collegiate philosophy curriculum adapted to diverse cultural contexts across **60+ countries** through our network with 70+ active local chapters and an 89-member ambassador program.
- Served on the Student Advisory Council board at the **Philosophy Learning and Teaching Organization** and worked with the **American Philosophical Association** and the **Indian Philosophy Network** to advocate for this model of expanding access to quality philosophy education.

### LING HACKS

*Executive Director (2024–Present)*

International computational linguistics and NLP-themed hackathon and clubs

- Led an 8-member organizing team to run LingHacks VI (June 2025), upskilling ~400 participants; the largest edition to date. LingHacks VII is scheduled for June 2026.
- Designed and hosted workshops for beginners, a college & career panel (with 7 PhDs, undergraduates, and researchers), and coordinated 16 judges and ~20 mentors.

### HERITAGE ON A PLATE

*Founder (2025–Present)*

Cultural documentation and promotion through gustatory lived experience

- Compiled and recreated regional recipes to preserve cultural memory among students living far from home in the boarding house at J. Periwal Int. School by working with the hostel cooking club.
- Beyond the school, collected recipes from ~25 regions along with oral tales of their significance.

## VOLUNTEERING

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### MUKUNDARA HILLS TIGER RESERVE

*Leader, Co-existence Program Volunteer Team (260 hours)*

Community-based sustainability initiative

- Led a 6-member volunteer team over two summers with conservation and community outreach practices.
- Organized sustainability and human–wildlife coexistence sessions for 60+ families, conducted habitat-awareness drives and trained residents to identify and report poaching risks.

## LEADERSHIP EXPERIENCE

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- **School Captain** (2025–26): Elected by a body of 2500+ students at **J. Periwal Int. School**.
- **Head Boy** (2024–25): Selected by the teachers and administrators at **St. Paul Int. School**.

- **Founder and President, Science Bowl Club** (2023–25): Supporting collaboration for Physics Brawl, Physics Bowl, and similar tournaments; mentored teams of juniors to break records in their categories.
- **Manager, EduVisa** (2023–24): Compiled high school resources used by thousands; hosted college panels.

## TALKS, LECTURES, AND PANELS

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1. **Models, Meaning, and Misguidance: AI Ethics in the New Age of Influence** — Speaker. Jun 2025. An Introduction to Philosophy for Developers (delivered during LingHacks VI)
2. **APA and PLATO's Civil Dialogue and Citizenship** webinar — Panelist. Oct 2025. Future PLATO panels.
3. InYPT Orientation 2025: Why Scientific Communication Matters — Speaker.
4. **LingHacks VI College & Career Panel** — Moderator. All LingHacks VI events — Logistics.

## ART PORTFOLIO

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- **Kathak** (traditional dance form): Merit award with perfect score in theory [beginner]
- **Flute** (Indian classical): School band (2017–Present)

**Paintings**   ◇   **Photography**   ◇   **Videography**   ◇   **Misc.**