

Devansh Bajaj

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EDUCATION

The British School, New Delhi, India <i>IB Diploma Programme (IBDP)</i> - HL: Mathematics AA, Physics, Economics - SL: English, Spanish, Environmental Systems & Societies	2012 – Present (Expected Graduation May 2027)
Cambridge IGCSE First Language English (A*), Mathematics (A), Physics (A), Computer Science (A), Economics (A), Spanish (A), Physical Education (A), English Literature (A), Chemistry (B)	2023 – 2025

STANDARDISED TESTS

SAT: 1500 (Reading & Writing: 750 Math: 750)	Dec 2025
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ACADEMIC PROGRAMS & COURSEWORK

Engineering Investigations Pre-College Program (onsite) – Tufts University, USA - Designed, built, and programmed a dancing robot and a battle bot with my team of 3 as engineering projects. - Developed hands-on skills in mechanical design, electronics integration, and iterative prototyping.	Jun – Jul 2025
Machine Learning Internship – Nanyang Technological University, Singapore - Applied machine learning techniques in a research setting; gained experience in data modelling and AI-driven analysis. - Created a machine learning algorithm to use in fridges to identify ripe, unripe and spoiled foods.	Jul – Sep 2023
Introduction to Engineering Mechanics – Georgia Institute of Technology (Coursera) Completed rigorous online course covering statics, dynamics, and core engineering mechanics principles.	2025

AWARDS & HONORS

Director's Award, The British School Highest academic honour awarded annually; recognizes consistent performance of 7+ A*/A grades with no grade below B across the full academic year.	2024–2025
Principal's Award, The British School Awarded for both semesters for achieving 7+ A*/A grades with no grade below B.	2023–2024
Bronze Medal, FMO National Mathematics Olympiad Qualified for the International FMO Mathematics Olympiad following the national round.	Sept 2025
Outstanding Sportsperson Award, The British School - Awarded by the school PE department as recognition for being the top athlete across sports in the entire grade. - Received this award for two consecutive years.	2024 & 2025

RESEARCH & INNOVATION

Founder & Creator, AerBoost - Founded and developed AerBoost, an eco-friendly athletic nasal strip engineered to enhance airflow and respiratory efficiency for athletes. - Product constructed from breathable, elastic, and irritation-free fabric; designed to widen nasal passages and improve endurance. Produced 25 physical prototypes and built a complete pitch deck. - Advancing the product through the prototype stage with hands-on involvement in design, material selection, and performance testing.	Apr 2024 – Ongoing
Designer & Developer, CubeSat Antenna Deployment System – Conrad Challenge - Designed and developed a CubeSat antenna deployment system, qualifying for the Innovator Stage of this international competition. - Applied aerospace engineering principles to address real-world constraints in small satellite deployment.	Sep 2025 – Feb 2026
Collaborative Researcher/Observership, Indian Institute of Technology Bombay - Engaged in ongoing engineering research collaboration with faculty; contributing to project development and technical analysis. - Created and tested G-code to control a student-built additive manufacturing machine.	Oct 2025

WORK EXPERIENCE

Metrology & Precision Engineering Intern, Mitutoyo South Asia Pvt. Ltd., New Delhi - Developed foundational knowledge of dimensional metrology and hardness testing, including international measurement standards in manufacturing quality control. - Gained hands-on experience with precision instruments (micrometres, vernier callipers, and indicators), measuring real-world components across industries. - Calculated tolerances, least counts, and instrument resolutions; applied metrology principles to assess dimensional accuracy.	Summer 2025 – Present
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- Shadowed the lead Civil Engineer across multiple turn-key construction projects, participating in site visits and ideation meetings.
- Contributed to discussions on engineering challenges, including water supply constraints and logistics of transporting materials to remote island sites.
- Gained exposure to emerging technologies, including 3D scanners, drone-based 3D mapping, and project management software.

Intern, Radiant Manufacturing, Noida

May 2026

- Analyzed a customer complaint involving inverted drain orientation in a cover meter sub-assembly and supported structured problem-solving using the 8D methodology.
- Contributed to 6M/fishbone root cause analysis, helping trace the issue to reversible fixture setup and insufficient orientation controls.
- Supported containment and corrective actions, including 100% inspection, SOP revision, visual orientation guides, and operator retraining.
- Recommended poka-yoke-based fixture improvements to reduce recurrence of orientation-related defects in future production runs.

LEADERSHIP

Sports Captain, The British School

- Representing the student body on athletic and school-wide initiatives; assisting the school PE department in coordinating and organizing Secondary Sports Day, NGO Sports Day, Panther's Sports Festival, inter-school ISAACI football and swimming meet, Panther's Sports Awards Ceremony, and inter-house sports competitions.
- Active team member of senior student council organizing and supporting school initiatives and events, including escorting VIP guests on school visits, coordinating activities and gift giving for Worker's Appreciation Day, and seniors' graduation and prom.

Founder & Co-President, Astronomy Club, The British School

2025 – Present

- Co-founded the school's Astronomy Club; responsible for planning and organizing weekly club meetings and hands-on observational sessions to grow student interest in space science.
- Managed a team of 12 members and participated in NASA citizen science projects.

COMMUNITY ENGAGEMENT

Volunteer Workshop Facilitator, More Than Play, New Delhi

Feb 2026 – Present

- Creating, designing, and delivering 8 science workshops for 30 children in an underserved neighbourhood community, using sport as a medium for STEM education.
- Created a digital literacy and online safety workshop for 30 children and their parents in a near-slum community.

Volunteer, Baseball Community Initiatives, Home Base Project, Delhi

2024 – Present

- Spearheaded 4 equipment collection drives to distribute baseball gear — gloves, bats, footwear, and clothing — to 40 low-income youth.
- Organised 4 coaching clinics, 3 exhibition matches, and an interschool competition to grow baseball participation across Delhi.

Volunteer Educator, Peepul Schools, New Delhi

Feb 2024

- Designed and executed daily lesson plans and led English, Mathematics, Science, and PE lessons for 35 specially-abled, low-income students.

ATHLETICS

Baseball – Delhi State Team, 3rd Base / 2nd Base

2017 – Present

- Most Valuable Player – Baseball, Delhi State Team (2024 & 2025).
- Best Fielder Award – National Baseball Softball Federation of India U-18 Tournament (Aug 2023).
- Competed in Under-14 and Under-18 National Tournaments (2023, 2024, 2025, 2026).
- Selected to represent India at the Under-18 Baseball Championship Tournament, Buenos Aires, Argentina.
- Youngest player selected for the Men's All-Star Baseball Tournament, Dehradun, India (March 2025).

Captain, Basketball Team, The British School

Aug 2023 – Present

- As captain, lead team strategy, training sessions, and mentorship of younger players.
- Represented school at FOBISIA, ISAACI, and ISSO international tournaments in India and Thailand.
- MVP and Sportsmanship Awards (2024, 2025).

Member & Goalkeeper, Football Team, The British School

Aug 2023 – Present

- Represented school in ISAACI and ISSO tournaments across India.

SKILLS & INTERESTS

Languages: English (Fluent), Hindi (Fluent), Spanish (Intermediate)

Technical: Python, Pseudocode, AutoCAD 3D Modelling, AI Tools, Adobe Photoshop & Lightroom, DaVinci Resolve, Canva

Interests: Photography (Best Photograph Award – School Science Photography Competition, Nov 2025), Cooking, Sim Racing, Go-Karting, Adventure Sports, Space Exploration, Travel