

Vedant Divakarla

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EDUCATION

The International School Bangalore (TISB)

Class of 2027

International Baccalaureate Diploma Programme, May 2027 · Intended study: Economics & Mathematics

IB predicted 45 / 45

Economics HL	7	Mathematics: Analysis & Approaches HL	7
Chemistry HL	7	History SL	7
Spanish ab initio SL	7	English Language & Literature SL	7
Theory of Knowledge	A	Extended Essay (Economics)	A

Cambridge IGCSE, 2025: 8 A*, 1 A · International Certificate of Education with Distinction

Additional Mathematics	A*	Economics	A*
Physics	A*	Chemistry	A*
Biology	A*	Business Studies	A*
First Language English	A*	Hindi as a Second Language	A*
Literature in English	A		

SAT 1570 (Math 800, Evidence-Based Reading and Writing 770; first attempt)

TOEFL iBT 118 / 120 · 6.0 / 6.0 (first attempt)

HONOURS & AWARDS

High Distinction — John Locke Summer Institute, Georgetown University

2026

Scholarship — John Locke Summer Institute, Georgetown University

Scholarship — Horizon Academic Research Program

Commendation — John Locke Institute Essay Competition, Politics

8+ Model United Nations awards — conferences across Bangalore

RESEARCH & PUBLICATIONS

Determinants of Exclusive LPG Use in Rural Karnataka, Bihar, and Odisha: A Comparative Analysis

Oct 2026

Research Scholar, Horizon Academic Research Program · mentored by Joshua Berry, Oxford PhD student

- Comparative analysis of why rural households that already have LPG do or don't switch to it fully, using state-level logistic regressions on the India Residential Energy Survey 2020.
- Applied bivariate and multivariate regression models; proffered policy suggestions.
- Graded A+; published in [Horizon Academic Preprints](#).

"Is democracy in crisis?" — essay, 1,958 words

John Locke Institute Essay Competition, Politics · Commendation

- Argues that substantive democratic quality is eroding while procedural functionality largely persists, using France (Article 49.3), India (coalitions and moralised politics) and the United States (gerrymandering).

INDEPENDENT PROJECTS

Air-O-Clean — *can a photo of the sky estimate air pollution?*

June 2026 – present

Independent developer & innovator · iPhone app and public website

- Designed a transparent scoring model that turns visual haze, sky blueness and horizon sharpness (rated by Google's Gemini) into the six standard air-quality bands.
- Every scan is paired with the nearest government sensor reading (OpenAQ, within 10 km and 60 minutes) to build a validation dataset; evaluation by Spearman rank correlation, confusion matrix and band accuracy, with fog analysed separately.
- Records camera mode on every scan to test how much locking exposure and white balance improves accuracy. Data collection ongoing; code written with Claude Code, question, model and test design my own.

IGNIS — *a low-cost carbon monoxide detector*

Presenting to the Government of India

Independent researcher, innovator & entrepreneur

- Identified the inaccessibility of CO detectors in India and built a proof of concept for about \$5 (Arduino Nano, MQ-7 sensor, buzzer).
- Costed every component and modelled a path to under \$3 through a custom PCB and bulk sourcing; earned expert verification of the feasibility of the sub-\$3 pathway.
- Built a proxy model of need by state (households × share on unclean cooking fuel) and assessed routes to market: school outreach, CSR-funded NGO pilots, institutions, then government procurement.

ACADEMIC PROGRAMS

John Locke Summer Institute, Georgetown University — *Politics & International Relations*

2026

- Debated geopolitics, international law, foreign trade and international relations; analysed moral and economic relativism and presented views on feasibility and implementation. Earned High Distinction.

Wharton Global Youth Program — *Future of the Business World*

- Discussed the impact of AI and human-centric design; collaboratively built and presented a business plan; compared quantitative predictive models through case studies.

NUS-APCME Business & Economics Summer Camp

July 2024

NUS Business School, National University of Singapore, with the Asia Pacific Centre of Management Education

Game Theory — *Stanford University & University of British Columbia, via Coursera*

Oct 2024

*Nash equilibrium, strategic reasoning · **verified certificate***

WORK EXPERIENCE

Intern, Centrum Wealth Limited

Oct – Nov 2025

Project: "Navigating Digital Threats in India's Growing WealthTech Landscape"

- Researched the susceptibility of current models to AI and data infringement; evaluated client ethics and presented findings to an Executive Vice President.

LEADERSHIP

School Captain (Head Boy), The International School Bangalore

- Led 40+ prefects to strengthen student voice through a representative system; encouraged school spirit through a club fair.
- Implemented accessibility improvements; increased prefect accountability with a 360-degree feedback form; oversaw improvements to key school-wide policies.

Chief Organizer, VIVUM — *India's largest student-led charity fest*

- Raised USD 12k+ in sponsorship, with USD 73k+ total revenue from 8+ streams.
- Worked with 200+ people; oversaw logistics and crisis response for 9,000+ participants, 30+ stalls and activities, and 25+ schools.

President, TISB Model United Nations Club

- Won 8+ awards across Bangalore and chaired several inter-school committees.
- Trained 150+ delegates in research and public speaking through weekly sessions; organized TISBMUN 2025 with 700+ delegates.

Initiatives & Service, TISB

- Co-founded the school's first economics magazine, *The Invisible Hand* (two issues); mentored successors.
- Head of Finance, PiThon (maths festival); Head of Distribution, Zephyr (mental-wellness festival).
- Tutored younger students through school-recognized peer learning.
- Represented the school at College Board and university visits.

Volunteer SAT Math Tutor, Schoolhouse.world — SAT Bootcamp

Jan – Mar 2026

13+ verified volunteer hours

- Led 8 small-group SAT Math sessions over Zoom through Schoolhouse.world's free SAT Bootcamp, after completing its tutor training.
- Between sessions, wrote targeted practice questions with worked answers on the topics learners struggled with in mock tests: algebra, advanced math, geometry and trigonometry, problem solving and data analysis.

INTERESTS

Wildlife photography — portfolio of 26 photographs from multiple safaris at vedantdivakarla.com/wildlife.

Football and cricket — played for fun with friends; follows Manchester United, Mercedes F1, India and Royal Challengers Bengaluru.