

Krishiv Bhatia

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📍 Mumbai, India Website: <https://theksphere.com/>

EDUCATION

DHIRUBHAI AMBANI INTERNATIONAL SCHOOL , Mumbai, India;	2024-Present
<i>International Baccalaureate Diploma Program, Grade 12;</i>	2024-Present
BOMBAY SCOTTISH SCHOOL , Mumbai, India;	2011-2023
<i>ICSE Board Examinations, Grade 10</i>	2021-2023

STANDARDIZED TESTS AND APs

• ACT: Composite - 35; Math – 36; English – 36; Science – 35; Reading – 34	2024
• AP Examinations:	
Physics Algebra-Based 1 – 5; Calculus AB – 5;	2023-2024
Calculus BC – 5; Statistics – 5; Psychology – 5;	2025
• IELTS: 8.5;	2025

ACADEMIC HONORS AND AWARDS

School:

• IB Predicted Score of 45/45 in Grade 12	2025 - 2026
• Academic Excellence Award for achieving 41/42 IB points in Grade 11	2024 - 2025
• Subject Achievement Awards in Mathematics: Analysis and Approaches HL, Physics HL, Chemistry HL, Economics SL, and Spanish ab initio SL	2024 - 2025
• Subject Effort Award in English: Language and Literature SL	2024 - 2025
• Valedictorian in Grade 10, Bombay Scottish School	2024
• 100% in Mathematics, Science, Computer Applications and History & Civics in Grade 10 ICSE Examinations	2024
• Awarded Certificate of Merit for outstanding performance by Council for ICSE Board for being among the top 0.1% in Mathematics, Science and Computer Applications	2024
• Scored an aggregate of 99.2% in Grade 10, ICSE	2024
• Moses Jacob Memorial Prize for the highest in Mathematics in Grade 9	2023

National & International:

• Won the Honorable Mention Award at the International Young Physicists' Tournament, Sweden	2025
• AP Scholar Award with Distinction	2025
• Gold Award in the Singapore Math Global Final (SMGF), with global rank 17	2025
• Gold Award and Best in School in the UKMT Senior Math Challenge	2025
• Gold Award in the Queen's Commonwealth Essay Writing Competition	2025
• Silver Award in the Fermat Mathematical Olympiad (FMO)	2025
• Bronze in the Singapore and Asian Schools Math Olympiad (SASMO) thrice	2022-2024
• Ranked 8th globally in the International Chemistry Quiz (ICQ), with high distinction	2025
• Certificate of Distinction in the Sir Isaac Newton Exam	2024
• Certificate of Distinction in the Annual Avogadro Exam	2025
• Bronze Medal in the Dr. Homi Bhabha Balvaidnyanik Science Competition	2023

EMPOWERMENT AND LIVELIHOOD INITIATIVES

Proto9, Mumbai, India & Rural Areas near Ujjain and Indore, Madhya Pradesh	2025
• Acquired experience with industry-grade equipment to test nano-formulations that act as fertilizers and textile materials.	
• Conducted field visits in rural belt near Ujjain and Indore, educating farmers on proper use of nanofertilizers and collecting feedback to improve crop health and fruit quality.	
• Developed an automated workflow to streamline testing of samples and distribution of reports to clients.	
Crowdfunding Initiative for Kashmir Valley Children, Line of Control (LoC), India	2023
• Managed a crowdfunding campaign that raised INR 335k (US\$ 4k) to sponsor the education of 55 underprivileged children in Army Goodwill Schools near the LoC	
• Media coverage through an interview and an article in the Times of India, Mumbai, 8 th October, 2023	

STEM INNOVATION

IIT Bombay, Koita Centre for Digital Health, Mumbai	2025
<i>Intern under Dr. Kshitij Jadhav, Assistant Professor at KCDH</i>	
• Developed predictive models leveraging LLMs for diagnosing Acute Kidney Injury (AKI).	
• Co-authored paper titled 'Leveraging an explainable machine learning model for early identification of Acute Kidney Injury: A retrospective study'	
• Research paper in review for publication in Oxford University's Journal of Applied Laboratory Medicine	
Ongoing Research mentored by Dr. Munib Mesinovic, PhD (Engineering), University of Oxford	2025
• Research on –'CardioLLM: A Fine-Tuned Large Language Model for Cardiac Condition Prediction from Clinical Notes'	

- Performed instruction fine-tuning of LLM for cardiac outcome prediction, evaluated against ML baselines on ICU dataset
- Developing a web-based interface for real-time deployment of both models, enabling clinical usability.

SCIENCE AND TECHNOLOGY EXPERIENCES

Internship:

Nividous, Intelligent Automation Company, Mumbai

2024

Summer Intern

- Acquired hands-on experience with intelligent process automation, enhancing workflow efficiencies.
- Engaged in specialized assignments focusing on Naive-Bayes Sentiment Analysis, incorporated into 'Nividous Smart Bot'.

Research:

Inter University Accelerator Centre (IUAC), New Delhi

2024-2025

- Co-authored paper: 'Structural Stability and Optical Band Gap Modification in V_2O_5 Thin Films via H_2^+ Ion Implantation' (Journal of Current Engineering and Technology).
- Analyzed experimental data (X-ray diffraction, FTIR, and UV-Vis), and assisted in writing the conclusion of the paper published in the *Journal of Current Engineering and Technology* (Jan 2025).

Extended Essay, Dhirubhai Ambani International School

2025

Designed a theoretical model based on Euler-Bernoulli beam theory to predict the dynamic ejection velocity of a projectile from a flexible launch system.

Competition:

International Young Physicists' Tournament (IYPT), Lund, Sweden

2025

Researched and developed solutions for three problems - 'Water Bottle Rocket', 'Invent Yourself: Paper Boomerang', and 'Magnetic Assist', while serving as presenter, opponent and reviewer during Physics Fights

Observerships:

Mswipe Technologies Ltd (Digital Payment Solutions), Mumbai

2025

Gained exposure to digital payment technologies, encryption and tokenization protocols, image processing, and pattern recognition algorithms used in the decoding of QR code-based payment technologies that interface with Unified Payments Interface.

Supreme Industries (Plastics and Packaging material Manufacturing), Pune, Maharashtra

2025

Studied and observed industrial-scale extruder lines and polymer production processes, specifically for manufacturing low-density polyethylene (LDPE) packaging materials.

Kinetic Engineering (Electric Vehicle Design & Development), Pune, Maharashtra

2025

Gained exposure to the design and development of the EV powertrain, battery management systems, and power delivery architecture

ONLINE COURSES

2025

Paul Lynn's PLC Dojo:

- PLC Fundamentals (Level 1)
- Applied Logic (Level 2)

Coursera:

- Linear Circuits 1: DC Analysis, Georgia Tech, Final Grade of 100%
- Mathematics for Machine Learning: Multivariate Calculus, Imperial College London
- Linear Algebra: Linear Systems and Matrix Equations, Johns Hopkins University
- Introduction to Graph Theory, UC San Diego, with Honors

MATH PURSUITS

Dhirubhai Ambani International School Math Olympiad (DAISMO),

2025

Designing Olympiad-level questions; donating entry fee proceeds to Advitya, an NGO supporting children with Down Syndrome.

Math Club, DAIS, Mumbai

2024

Participated in weekly advanced Number Theory sessions, emphasizing collaborative and open-ended problem-solving

EXTRACURRICULARS

Chess:

2022-2024

- Hold International FIDE Rating of 1468.
- Secured 1st position in the School Chess Tournament in Grade 9 and 2nd position in Grade 10

Scottish Spotlight, Bombay Scottish School

2022

Secured first position in the Scottish Spotlight's 'Mad Ad-World' Advertising Competition.

Communication Skills, Trinity College of London

2022

Distinctions in Communication Skills in Grades 6,7 and 8

School Band, Bombay Scottish School

2022-2023

Member of the School Band as a flautist

LANGUAGES

Fluent in English, Hindi and Spanish ab initio

Part of Spanish-India Student Exchange Program at DAIS; Visited Spain and hosted a Spanish student in Mumbai, fostering cross-cultural understanding

SKILLS AND INTERESTS

Programming Languages: Python, Java and R

2022-2025