

# Krishiv Bhatia

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

## EDUCATION

**DHIRUBHAI AMBANI INTERNATIONAL SCHOOL**, Mumbai, India; 2024-Present  
*International Baccalaureate Diploma Program, Grade 12;* 2024-Present

**BOMBAY SCOTTISH SCHOOL**, Mumbai, India; 2011-2023  
*ICSE Board Examinations, Grade 10* 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
- Gold and Silver Awards in Thailand International Mathematical Olympiad Heats and Final Round respectively 2025
- Certificate of Distinction and Merit in the British Math Olympiad Rounds 1 and 2 respectively 2025-26
- 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

## 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<sup>th</sup> October, 2023

## STEM INNOVATION

**IIT Bombay, Koita Centre for Digital Health, Mumbai** 2025

*Intern under Dr. Kshitij Jadhav, Assistant Professor at KCDH*

- 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

**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
- Published in the Oxford Journal of Student Scholarship (<https://doi.org/10.65161/recsFewcWZaWC9vK7>)

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## 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<sub>2</sub>O<sub>5</sub> Thin Films via H<sub>2</sub><sup>+</sup> 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

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## 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

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## 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

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## EXTRACURRICULARS

**Chess:** 2022-2024

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

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## 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

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## SKILLS AND INTERESTS

Programming Languages: Python, Java and R 2022-2025