Ishaan Domkundwar

E1102, 24K Glitterati, Vishal Nagar, Pimple Nilakh, Pune 411 027, India.

Phone: +91 90286 84200, Email: ishaanvdomkundwar@gmail.com, Website: https://www.ishdom.com/

EDUCATION

Mahindra International School, Pune, India		2012 - Present
•	International Baccalaureate Diploma Programme (IBDP) Grade 11 & 12. School Highest Scorer.	2023 - Present
•	International Baccalaureate Middle Years Program (MYP) Grade 6 - 10. Top of Class in 10th Grade.	2018 - 2023
•	International Baccalaureate Primary Years Program (PYP) Grade 1 - 5.	2012 - 2018

STANDARDIZED TESTS

SAT: Total - 1590. Mathematics - 800, English - 790

ACADEMIC HONORS & AWARDS

School:

•	Scored highest in school (of 32 students) in 11th Grade achieving 40/42 points in IB DP1	2023 - 2024	
•	Scored highest in school (of 32 students) in 11th Grade in Math HL, Physics HL, English HL, Chemistry and History	2023 - 2024	
•	Scored highest in school (of 35 students) in IB MYP5 (10th grade), achieving 52/56 IB points.	2022 - 2023	
•	Scored highest in school (of 35 students) in 10th Grade in Math, English, Physics, Chemistry	2022 - 2023	
•	Honor Roll awardee throughout IB Middle Years Program from Grade 6th to 10th and IBDP1	2019 - 2023	
International:			
•	2025 National Merit Scholarship Semifinalist	2024	
•	Ranked in the 97th - 99th percentile consistently in the Math NWEA MAP Test.	2015 - 2021	
•	Ranked 33rd internationally (99th percentile) at SOF International Mathematics Olympiad	2016	
•	Ranked 98th Percentile (2017), 93rd Percentile (2018) at SOF International Mathematics Olympiad	2017 - 2018	

LEADERSHIP INITIATIVES

BioFuelGPT, a biomass awareness AI bot for farmers developed at BiofuelCircle, a leader in the biomass supply chain, Pune India

2024

- Developed BioFuelGPT, an AI-driven natural language bot aimed at educating farmers on converting agricultural waste into new income sources through BioFuelCircle, India's #1 biofuel marketplace.
- Analyzed user data to identify trends and impacts on income enhancement for farmers near Pune.
- Conducted comprehensive field research by interviewing users of BioFuelCircle to understand usage benefits and challenges, while also reaching out to potential users and farmers to assess barriers to entry.
- Collaborated with the BioFuelCircle team to refine research tools and integrate farmer insights into the AI model.
- Led the creation and iterative development of a custom conversational AI (GPT model) to facilitate natural, impactful dialogues with farmers, significantly increasing farmer engagement and adoption rates.
- This initiative also contributed to environmental sustainability by reducing farm waste burning and promoting green energy production.

Tech for Teachers, Pune India

- Launched the Tech for Teachers initiative, co-developing a curriculum to address digital literacy gaps for teachers at local non-profit schools and NGOs.
- Trained 25+ teachers in Google, Microsoft, and web education tools, empowering them to impact 2,500+ students annually with modern, effective, tech-enabled teaching methods.

Social Impact Internship at Jazz Hands, a nonprofit leveraging drama and theater to boost English literacy among school children, Pune, India 2024

• Led a strategic initiative for Jazz Hands. Created a plan to resume operations post-COVID, significantly impacting educational continuity and outreach. Performed market research, worked on client feedback, and held customer interviews.

STEM INNOVATION & EXPERIENCES

AI Safety Research at SuperAGI, Palo Alto, California, USA

2024

2023 - 2024

- Conducted research on AI Safety. I investigated the safety limitations of current models and AI systems that we use. Based on these limitations, I proposed three safety frameworks that can improve the current unsafe systems. These were tested by developing an AI system and integrating these methods.
- Authored a research paper (https://www.arxiv.org/abs/2409.03793) on AI agent safety based on the above, outlining frameworks to mitigate critical risks in AI applications, enhancing system reliability and security across various contexts.

LLM Performance Research Independent, Pune, India

2024

• Researched Large Language Models under the guidance of a PhD student at MIT. I focussed on improving their logical reasoning capabilities, which I evaluated using arithmetic sequence prediction, as this is something I noticed was a weakness. Evaluated 6000+ sequences to analyze trends.

• Published a research paper detailing methodologies and results, recommending innovative combinations of methods that significantly advance the predictive capabilities of these AI models.

Summer Programs

University of California at Berkeley - ROAR Academy, Berkeley, California, USA

2023

- Accepted into UC Berkeley ROAR Summer Academy, where I collaborated with peers to enhance the speed and performance of self-driving racing cars in simulation, gaining hands-on experience in autonomous vehicle technology and advanced robotics. The program was led by UC Berkeley Principal Investigator Dr. Allen Yang, who focuses on AI and Computer Vision research, and his graduate students.
- Our team's solution resulted in a 6-second improvement in the autonomous car's race timing over the previous best. https://roar.berkeley.edu/past-results/

Massachusetts Institute of Technology, Online

in

Completed the MIT Beaver Works Summer Institute (BWSI) Prerequisite Online Course on Autonomous RACECAR, developing advanced skills in
autonomous vehicle navigation and programming simulation vehicles for various obstacles and high-speed competition.

NYU Tandon School of Engineering - SPARC, New York City, New York, USA

2023

Accepted into the NYU SPARC program, mentored by PhD candidate Sarmad Mehrdad and Professor Vikram Kapila whose research focuses on the
convergence of frontier technologies including robotics, artificial intelligence, and engineering. We mastered building advanced circuits and robots, and
programming robots to autonomously solve complex tasks.

INTERNSHIPS & OBSERVERSHIPS

Market Research Intern at Better Capital, India's largest pre-seed venture capital firm, Pune, India

2024

• Researched the full gamut of AI tools and applications for students, and created a market map to contribute to Better Capital's AI investment thesis.

Observership at Flytbase, a drone manufacturing and solutions startup in Pune, India

2023

Observed drone flight operations, assisted in testing drones for specific requirements, and shadowed a team throughout the process.

SCHOOL LEADERSHIP

MIS Coding, AI, and Robotics Club at Mahindra International School, Pune, India

2023 - Present

- Founded and ran the Coding and Robotics Club for 3 semesters, sparking interest in robotics among students through hands-on projects in a previously
 underrepresented field.
- Built robotics programs for autonomous functions like line following from scratch, fostering skills and passion for programming and robotics in club
 members.

Student Council Leader at Mahindra International School, Pune, India

2022 - Present

Elected to the Student Council leadership team out of ~10 candidates for 3 consecutive years, reflecting strong peer support and trust. Served as the Vice
President, leading initiatives to improve policies such as school meals, informing strategic planning such as the future structure of teaching, and organizing
community-building events like the school dance and school carnivals. As Treasurer, successfully managed the council's budget and organized fundraising
events.

Peer Tutoring at Mahindra International School, Pune, India

2022 - Present

 Volunteered and tutored 5 peers and students in High School Mathematics and IBDP Chemistry. Informally assisted many high school students, mainly in mathematics, physics, and chemistry.

DIGITAL PLATFORMS FOR COMMUNITY OUTREACH

Rakshak with Himayat, an award-winning for-profit social enterprise in Pune, India.

2024

- Developed Rakshak, a transformative insurance and benefits package designed to empower millions of domestic workers in India by ensuring financial
 security and improving their quality of life. Conceptualized and named "Rakshak" (meaning protector in Hindi) to symbolize the project's core mission of
 worker empowerment and security.
- Collaborated with Himayat, a for-profit social enterprise, and local staffing agencies to tailor and distribute benefits packages directly to domestic workers. This initiative bridged the gap between traditional benefits systems and the unique needs of informal sector workers.
- Partnered with Better Capital and leading fintech/insurtech startups to curate and implement a comprehensive suite of solutions including insurance, savings, and skilling programs. This collaboration not only enhanced the project's scalability but also provided me with invaluable insights into the intersection of technology, finance, and social entrepreneurship.

CodeCoffee, an edtech startup in Pune, India

2022 - 2024

Created an edtech startup CodeCoffee, transforming my 10th-grade personal project into a platform that makes coding accessible and engaging for high
schoolers through educational videos and quizzes. Established and ran a coding club at our school and am planning to expand to other schools to drive
greater impact by inspiring more students to learn programming. URL: codecoffeecourse.wixsite.com/code

SPORTS ACHIEVEMENTS

Varsity Basketball at Mahindra International School, Pune, India

2019 - Present

- Competed in numerous interschool tournaments across various cities in India. Played the position of Shooting Guard.
- Won multiple silver medals, underscoring athletic excellence and commitment.

Soccer Team at Mahindra International School, Pune, India

2022 - 2023

Participated in 2 interschool tournaments, winning silver, and contributing to team success as a defender.

Varsity Volleyball at Mahindra International School, Pune, India

2022 - Present

Competed in several interschool tournaments, winning gold at a national-level tournament, and displaying dependable skills.

Club Basketball at SKP Academy, Pune, India

2018 - Present

- Dedicated to learning basketball since elementary school, developing into a skilled player.
- Competed in 10+ citywide tournaments, gaining valuable experience against highly competitive teams.

MUSIC & PERFORMING ARTS

Trinity College London - Rock & Pop Drums Examinations

2017 - Present

- Completed the Trinity College London Rock & Pop Drums program from Initial to Grade 7 (out of 8 total grades). Final Grade 8 in progress.
- Achieved Distinction/Merit in all final exams, evaluated by Trinity College London's faculty.

Lead Drummer at Mahindra International School Band, Pune, India, and played at Pune Concerts

2019 - Present

- Performed at numerous school concerts and major events, including graduation ceremonies and annual concerts.
- Performed as the drummer for bands at multiple citywide music concerts.

ONLINE COURSES & SUMMER SCHOOLS

Johns Hopkins Center for Talented Youth (CTY)

2018 - 2022

- Selected for the CTY program for accelerated learning for gifted students. Allowed me to go beyond my school curriculum in middle and high school.
- Undertook advanced courses and achieved the following grades: Advanced Web Design (A), Honors Pre-Algebra (A), Honors Algebra-1 (A), Honors Algebra-2 (A-), Honors Trigonometry (A), Introduction to CS and Engineering (A+), Introduction to Web Design (A).

Abhyasu, Pune, India 2021 - 2023

Mastered basic, intermediate and advanced Python programming at Abhyasu, a coding startup founded by an ex-Lyft engineering leader, culminating in a
comprehensive capstone project involving speech and text conversion functions and APIs.

WiseOwl 2021

Completed WiseOwl's "personal finance for high schoolers" program, gaining in-depth knowledge in personal finance and developing a strong interest in
investing and financial markets.

COMMUNITY OUTREACH

Mathematics Teaching Volunteer at Doorstep School, Pune, India.

2021 - 2022

- Taught Math to underprivileged children from Doorstep School in Pune, which educates children from the streets, slums, and marginalized communities.
 Tree Plantation & Irrigation at Hillside Revegetation Service, Pashan, Pune, India
- Planted 20+ trees, watered an area of 3+ acres, and assisted local organizations with this initiative as part of a team working at a hillside in Pune.

SKILLS & INTERESTS

- Fluent in English, Hindi, and Marathi, and intermediate in German.
- A proven ability to simplify complex topics and explain them to my peers leading to peer tutoring at school.
- Passionate foodie who explores diverse cuisines and cultures, adept at cooking multiple dishes, and engages with culinary arts as a dedicated hobby.
- Sports enthusiast with a keen interest in Basketball, Formula One racing, American Football, Soccer, and Cricket.
- Passionate about music and exploring diverse genres, all stemming from being a dedicated drummer from an early age.