NIKHIL PANDE

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EDUCATION

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Oberoi International School (OIS), OGC Campus, Mumbai – Class of 2025	2016 – Present
International Baccalaureate Diploma Programme (IBDP), Grade 12	2023 – Present
Middle Years Program (MYP), Grade 10	2018 – 2023
STANDARDISED TEST SCORES	
SAT — 1520 (790 Math; 730 Reading and Writing)	October 2024
ACADEMIC HONOURS & AWARDS	
School Awards	
IB Sports Science Award: For subject proficiency both in and out of school	May 2024
• IB Student of The Year: For demonstrating excellence in the academic year 2022-2023	May 2023
• IB Leadership Award: For exceptional participation and initiative in academics and extracurriculars in the academic year 2022-23	May 2023
• MYP 5 Distinction: For strong academic attainment (53/56); received Rs.1 lakh scholarship	May 2023
Mathematics Awards – International	
Silver — Hong Kong International Math Olympiad (HKIMO)	August 2023
• Distinction — Galois Exam (CEMC, University of Waterloo)	March 2023
• Distinction — Cayley Exam (CEMC, University of Waterloo)	February 2023
• Gold + Silver + Bronze Medals — South East Asian Mathematics Competition (SEAMC)	March 2019
ECONOMICS & MATHEMATICS EXPERIENCES	
Research	
Gig Economy Impact on Employment — Conducted research on impact of Gig economy on employment stability and worker benefits. Published in IOSR Journal of Business and Management, and EPH – International Journal of Business Management Science	October 2024
High School International Economics Essay Competition (HIEEC) — Conducted research and compared the efficacy of carbon taxes vs subsidies in reducing greenhouse gas emissions. Suggested alternative policies (i) tradable permits, (ii) Pigovian taxes, and (iii) environmental standards, as effective measures to further reduce greenhouse gas emissions.	December 2024
Fractals in Music — Conducted research on fractal dimensions of waveforms of sound files by detailed analysis of decomposition coefficients yielded by waveform through the wavelet function	August 2024
Approach Shot Strategy — Attempted to create a mathematical model using the Strokes Gained statistic in golf that could be used to yield the optimal approach shot strategy for a golfer	August 2023
Online Courses	
Number Theory and Cryptography	July 2024
Mathematics for Machine Learning: Multivariate Calculus	December 2024

MATHEMATICS EMPOWERMENT INITIATIVES CourseLeap Education (https://courseleap.org/) June-July 2024 CourseLeap Education is an organisation that conducts online courses to help students prepare for competitive math exams (AMC 8, 10 & 12). The company is creating an online self-study version of their course by developing problem-solving videos that students can learn from Developed 25+ problem-solving videos on various math topics Created 20+ concept-based practice quizzes for students Wrote Blog Posts for the organisation to give prospective students a preliminary look into the learnings they can receive from the course, highlighting efficient preparation techniques, test-taking strategies, and providing an overview of the test format and scoring Maths 101 October 2024 Created a set of 'open for free use' conceptual videos (each ranging from 7-10 minutes) on MYP 4-5 Math syllabus topics including surds, quadratic equations, logarithmic and trigonometry functions, to provide math learning resource to MYP students Root to Success October 2023 Founder and head of a math club in school focused on preparing students for competitive math exams (AMC, CEMC, HKIMO) Shoonya Math Competition 2023 October 2023 Led creation of exam paper for the Shoonya Math Competition 2023 at OIS (in collaboration with World Mathematics Championships®) and helped with event organisation **GOLF PURSUITS Scratch Golfer** — Handicap Index of 0.9 Present March 2024 2nd Runner-Up — Western India IGU Amateur Feeder Tour @ Willingdon Sports Club December 2023 4th Place — Hyundai Indian Junior Golf National Final @ ITC Classic Golf + Country Club 22nd Place — Indian Golf Union All India Western India Open @ Poona Golf Club December 2022 November 2022 Winner — Western India IGU Junior Feeder Tour @ Gulmohar Greens Club 2nd Runner-Up — Hurricane Junior Golf Tour @ Fairchild Wheeler Golf Club (USA) June 2022 Runner-Up — Hurricane Junior Golf Tour @ Architects Golf Club (USA) June 2022 3rd Rank — Western India Junior Tour Merit List, automatically qualifying for the Indian Junior 2022 National Circuit for 2022 Calendar Year 2nd Runner-Up Western India Junior Tour-Golf May-December 2021 November 2021 Winner — Western India IGU Junior Feeder Tour @ Poona Club October 2021 Runner-Up — Western India IGU Junior Feeder Tour @ Poona Club October 2021 Winner — Western India IGU Junior Feeder Tour @ Willingdon Sports Club PIANO & MUSIC PURSUITS Training Trinity College of Music Exams: Distinction — Practical Grade 1-5 & Theory Grade 1-3 June 2012-Present

Outreach

• Taught piano to children with visual impairments and spasticity, focusing on developing technical and motor skills, and providing exposure to different music genres

August 2019-Present

• Organized Solo Piano and Choir performance by children of the Happy Home and School for the Blind at the Oberoi International School, attended by 400+ students

EXTRACURRICULAR ACTIVITIES

Chess

• Competitive Chess Player — Consistently rated in Top 50 USCF player rankings (US Chess Federation) in the K-6 category

June 2012-July 2016

- 2nd place in Chess Nationals Finished Runners-up four times at the USCF Primary National Team Championships (May'14, Dec'14, May'15 & Dec'15)
- Core Team Member The Dalton School Chess Team (New York City)

Squash

Top 75 Junior Squash Player — Received career-high ranking of 74 in India BU13 squash

April 2019

INTERESTS

Cooking; Piano; Playing Cricket, Basketball, Squash; Watching Sports