

Nishika Shah

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Education

Mayo College Girls' School (MCGS), Ajmer, India

Apr 2018 - Present

- Pursuing ISC (Math, Physics, Chemistry, Computer Science, English): 1 of 8 students in batch of 91 to take Sciences
- ICSE: 98.4% (4th highest in batch of 105 students)
- XI: Certificate of Honour for >80% average in Science (given to 3 out of 8 Science Students)
- X: Certificate Of Excellence & Silver Plate for Distinction in ICSE for scoring 98.4% (4th highest in the batch of 105)
- X: Certificate of excellence in Computer Science (1 of 5 students), Mathematics (1 of 4 students), Hindi (only student)
- IX: Certificate of excellence in Mathematics (1 of 2 students)
- Testing: SAT: 1480 | AP Psychology: 5/5 | IELTS Academic: Overall 8 band score

Academic Research & Conference

Research: Using Technology To Teach Mathematics, *Author*

Apr 2022

- Published: The Mathematics Education for the Future Project, Oxford Symposium held at The Queen's College, Oxford University, UK
[link to paper](#)
- Researched and identified innovative educational technology tools to enhance mathematical teaching
- Provided practical solutions for educators to integrate technology into their math classrooms for increased student engagement and comprehension

Research: Non-Routine Problem-Solving Strategies for Children Making Mathematics Formula Free, *Co-Author*

Apr 2022

- Published: The Mathematics Education for the Future Project, Oxford Symposium held at The Queen's College, Oxford University, UK
[link to paper](#)
- Conducted a comparative analysis between traditional 'formula-based' problem-solving and the application of logical reasoning in solving 3-5 mathematical problems
- Identified a common issue among junior students, who tend to rely on rote memorization of mathematical formulas without a deep understanding of their applications

Association of International Mathematics Education and Research Conference, *Nominated by School*

Jan 2023

- Selected out of 98 students to attend the conference and present my research paper on 'Using Technology To Teach Mathematics' at the 3-day Math conference where audience included PhD students, mathematicians from different countries such as Israel, Germany and Slovenia
- Actively participated in workshops and worked with professors on topics like ethnomathematics, application of calculus in an ever-growing world, 4-person chess and more

Internship & Job Shadow Experience

Kamal Motors, Gonda (Dealership franchise of Hero Motocorp agency), *Data Analyst*

June 2023 - Sep 2023

- Conducted extensive data analysis on customer buying behavior utilizing raw data from the firm
- Produced a comprehensive report detailing the analysis of customer buying patterns across various motorcycle series (HF, Splendor Plus, Passion, Super Splendor, Glamour) and scooter models over a three-year fiscal period
- Evaluated the utilization of finance options during motorcycle and scooter purchases, providing valuable information to enhance marketing and sales strategies
- Presented strategic recommendations to improve customer acquisition and retention, including 'Implementation of a Low Down Payment Scheme to attract budget-conscious customers'

Fortis Healthcare Ltd (Department of Mental Health and Behavioural Sciences), *Job Shadow Intern*

Aug 2021

- Engaged in a 6-day online internship program focusing on 'Psychology for School Students,' gaining a profound understanding of key psychological concepts and principles
- Actively participated in case studies and practical exercises, applying learned theories to real-life scenarios
- Gained insights into the vast scope and potential career opportunities within the field of psychology, including its applications in education

Community Initiatives

Small Steps Project (Personality & Etiquette Training), *Founder & Teacher*

May 2022 - Present

- Self initiated a finishing school motivated by personal struggles experienced during a transition from rural hometown to urban boarding school
- Women's training: Taught different age groups basic spoken and written English, soft skills, basic technology skills and etiquettes using a self devised curriculum and supported by easy to understand technology and designed games and activities customised to each age group
 - 30 women among the age of 40-50 (collaborated with Rotary Club Gonda Green, Gonda)

- 100 girls of age 10 (with the junior classes of MCGS)
- 100+ girls of age 18-21 (Collaborated with Lal Bahadur Shastri College, Gonda)
- 50+ girls of age 12-17 (with SUPW domain, Jagriti, at MCGS)
- Conducted a captivating and unexpected radio interview for the local town's radio station, following a workshop, successfully engaged the audience for a full 20-minute session, receiving a remarkable response due to the high level of interest in the topic.
- Nominated by school to Participate in prestigious Young Leaders Conclave hosted by Modern School, Vasant Vihar
 - Completed comprehensive training covering the entire spectrum of entrepreneurship, from ideation to effectively presenting business concepts to potential investors
 - Presented my business concept of 'Small Steps' through a dedicated stall - Received feedback and appraisal from Namita Thapar, the Executive Director of Emcure Pharmaceuticals who highlighted the importance of interpersonal skills in our society and recognized the immense potential and scalability of the Small Steps idea
 - Engaged in insightful discussions with distinguished individuals, including the founder of startupindia.gov.in, the CEO of Wingreens, and the founder of goibibo.com, further enhancing my knowledge and networking within the entrepreneurial ecosystem

Rotary Club Gonda Green, Active Volunteer

Apr 2018 - Present

- Fund Raising: Raised INR 17,450 to install a sanitary napkin machine in rural areas. Conducted campaigns to spread menstrual awareness among 200+ people of all ages
- Communal Education: Educated 50+ children living in rural areas in basic literacy, numeracy, soft skills and hard skills
- Public Health Education: Visited corporate offices and educated 100+ staff in the importance of taking the covid vaccine

Leadership & Activities In School

Meera House, Captain (unanimously selected by the House Staff)

Aug 2022 - Present

- Selected out of 104 students to lead the house: make crucial decisions, navigate disputes between the house members, organise communal events, select and organise teams

Eureka, Mathematics Magazine, Editor-in-Chief

Apr 2018 - Present

- Selected for 1 of 3 core leadership positions for my contribution as active member of the mathematics society
- Conducted sessions with Mathematics Society, sharing my research paper insights and coaching on effective research paper writing techniques
- Taught tips and tricks to attempt series and pattern based questions, created a self devised strategy to ignite interest in mathematics among juniors

Folk & Western Dance Club, President

April 2018 - Present

- Organised 6 events, trained middle school and high school juniors in various dance forms
- Spearheaded intra-school and inter-house competitions, contributed to costumes and makeup ideas
- Participated and won in more than 10 inter school events, which included dance forms like Kathak, Contemporary, Jazz, Hip-Hop and Freestyle
- Awards: Indian Public School Conference Dance 2022, 1st position in Choreography and Western Dance out of 168 students at a national level; Indian Public School Conference Dance 2023, 'Outstanding Dance and Movement Pedagogy and Praxis' in Folk and Western Dance out of 150 students at a national level

TEDX Club, President

April 2023 - Present

- Created a self devised and effective marketing strategy to reach out to famous personalities inviting them to give Ted Talk
- Encouraged middle school and high school students to conquer stage fright, and organised intra-house Ted Club events to help students develop public speaking skills

Hindi Debating Society, President

April 2020 - Present

- Trained middle school and high school juniors in debating, took auditions, finalised teams for inter-school events, decided topics and spearheaded multiple school events, developed skills in cross-questioning with respect to debates
- Initiated and established the concept of Bilingual Debates, strengthening collaboration between English and Hindi Debating
- Awards: Miss Linnell Hindi debate, hosted by Welham Girls' School, Dehradun. Awarded Best interlocutor out of 14 schools

School Social Media Team, IT Coordinator

April 2023 - Present

- Navigated complex technology to refine school website, supervise social media accounts, edited posts, designed content

MCGSMUN 2023, Director Information Technology

April 2023 - Present

- As part of the Secretariat, organised the event, made the website and main video, supervised networking among schools
- Award: SMARIKA hosted by Welham Girls' School, Dehradun, Research intensive Multimedia Competition: 1st Position out of 14 schools