

Diya Singhal

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EDUCATION

Delhi Public School, R.K. Puram, New Delhi, India

Class XII | Predicted Marks: 98.4% | Mid Term Marks: 94.2% 2024

Physics, Economics, Maths, Computer Science, English

Class XI | Marks: 89% 2023

Physics, Economics, Maths, Computer Science, English

Class X | CGPA: 10/10 2022

Class IX | CGPA: 10/10 2021

Standardize Tests and Advance Placements

SAT: 1540 | IELTS: 8.5

AP: Psychology - 5 | AP: Microeconomics - 5 | AP: Calculus BC - 5

ACADEMIC ACHIEVEMENTS

- Gold Medal, Scholar Tie, Badge and Certificate of academic excellence for 7 consecutive years | Grade 12
- AP Scholar Award for securing a 5/5 grade on all 3 Advanced Placement examinations | Grade 12
- Gold Medal and Certificate of Zonal excellence for ranking 1st internationally in the first round of the International English Olympiad 2022 | Grade 11
- Gold Medal and certificate for securing 7th rank internationally in International English Olympiad | Grade 10
- Certificate of Excellence and Pin in school for Robotics 2nd national position in First Lego League | Grade 9

LEADERSHIP RESPONSIBILITIES AND ROLES

President of Editorial Board, Literati Club DPS RK Puram Grade 11-12

- Recruited and mentored a dynamic team of 80 juniors for the editorial board.
- Led and collaborated with a team of 20 to produce the yearly publication DIPS Diary magazine 2022-23.
- Interviewed the Principal and the Chairman of the DPS Society, and authored various website reports and articles for the club & and the magazine.

Design Portfolio President, Unravel Sciences Grade 11-12

- Enrolled 50+ members for the Design Portfolio Club.
- Held national-level design competitions.
- Conferred Sustainability Innovative Excellence Award 2023 in the field of Millennium Technology for contributing to the field of innovation and accessibility.

Senior Member of Digex Clan DPS RK Puram Grade 11-12

- Design head and overall in-charge of the annual Digex Fests 2022 and 2023 which has more than 500 participants from all over the country each year.
- Interviewed for media coverage for the events on "Doordarshan" the Indian National Television.
- Led team of 50 peers in developing a plan, creating timelines and delegating responsibilities.
- Designed logos, posters, banners, merchandise, and other promotional materials for the event.
- Collaborated with sponsors and school partners ensuring their participation.

Senior Member of Think Club DPS RK Puram Grade 11-12

- Led the team to develop 30-40 kits that focused on hands-on activity and encouraged the team to design experiments on scientific principles through practical application.
- Spearheaded the Think Club inductions 2023-24.
- Design head of the annual ThinkLab magazine.
- Organized the Think Summit 2023.

JOURNALISM/PUBLICATIONS

- **Author, "The Fysics of Fun- An Illustrated Guide"** - Using a perfect blend of science and art, authored a physics comic book which covers a wide range of topics in an approachable way.
- **Best Science Comic Book Award Winner -Launched my debut book, "The Fysics of Fun"** at the World Book Fair 2023 and received the Best Science Comic Award.

RESEARCH PROJECTS AND PAPERS

Research: Wheelchair Project

Mar 2022 - Aug 2023

- **Awarded by Sri Balaji Action Medical Institute:** Awarded and commended for developing an economically modified wheelchair with a crossbody adjustable seatbelt with a foldable tray table | July 2023
- **Nominated for Diana Award 2023:** Nominated for Diana Award 2023 for an economically revolutionary redesign of manual Hospital Wheelchairs with a crossbody adjustable seatbelt and turntable based on surveys conducted on patients, doctors, attendants, and biomedical personnel about the problems they experience with wheelchairs | March 2022 to June 2023
- **Paper Presentation, International Spine and Spinal Injuries Conference 2022;** Presented a paper on design changes in manual wheelchairs integrating stakeholder survey insights to identify areas of improvement | 3rd and 4th December 2022 and received the 'Young Presenter Award'
- Interacted with **Mr. Stephen Muldoon** from Asian Spinal Cord Network, **Ms. Mardelle Shepley**, Professor at Cornell University and Director of Cornell Institute for Healthy Futures and **Jon Pearlman**, Professor, University of Pittsburgh to seek guidance on the design of the wheelchair.

Research: First Author and Design Head of H2Optimize, Omotec

Nov 2022 - Jun 2023

- **Research Paper** on Design Modifications in Automatic Water Conservation System.
- **3D Designed a prototype** for an IoT-integrated device for regulating water flow through taps.
- **Delhi Water Board** is investigating its feasibility and viability for scale deployment and is implemented in the school pantry.

Research: CO-Research Intern; Okaya

Dec 2019 - May 2020

- Research and co-authored a paper on Online Water Quality Monitoring which was published in the IOSR Journal of Environmental Science and Toxicology.

INTERNSHIPS/WORK EXPERIENCE

Intern | Siemens Healthineers AG Germany

17 Apr - 28 Apr 2023

- Selected in the Young India Innovator Workshop program about 'Access to Healthcare for All.' and suggested design improvements for a new MRI scanner.

Intern | Jal Ministry, Government of India

20 Sep - 05 Nov 2022

- Researched, conducted data analysis & compiled reports on the policy framework of Jal Jeevan Mission to help crores of rural households have tap water at home.

ROBOTICS

- **Received 2nd National and Best Robot Design Award First Lego League 2019-2020:** The team designed a project on the accessibility of a wheelchair-friendly convertible staircase to ramp attachment and an EV3 robot path configurator
- **Participated in Robothon workshop at Indian Institute of Technology, Delhi, 2020:** Developed a black line-following robot and received a certificate of distinction
- **Participated in the Student Solar Ambassador workshop at the Indian Institute of Technology, Bombay, 2020:** Awarded a certificate for making solar study lamps by student solar ambassadors in association with IIT Bombay

WORKSHOPS

- **Participant in Leadership Pro Workshop:** Awarded a certificate of completion for successfully completing LeadershipPro, Aspire's Summer Leadership Program by Aspire Education in association with the University of Virginia, Darden School of Business | June 2021
- **Participant in Product Design Processes online course:** Attended an online course on Product Design Processes: Creative Design, Prototyping and Testing, by the University of Maryland on Coursera | May 2022
- **Camp Champ awardee at Camp Tirthan:** Awarded a certificate and trophy for Fun, Initiative, Nurturing and Development at Camp Tirthan and participated in Camp Sitlakheth and Junga | May 2020

COMMUNITY SERVICE

Founder, Book Recycle Rendezvous

Grade 10-12

An initiative to promote recycling and reusing of books and making books more accessible to students who cannot afford them. This initiative has helped more than 500 students and empowered young minds to learn, grow, and dream.

- Organized 10+ fairs for used books for three consecutive years and collected and distributed more than 5000 pre-used books.
- Helped in making books more accessible to students who cannot afford them, the initiative promotes literacy and education among young individuals, empowering them with knowledge and opportunities.

Partner - Project Go Green

Jul 2022 - Sep 2023

- Partnered and head started Project Go Green, a non-profit which creates Sustainable Businesses, by helping the private sector achieve Sustainable Development Goals.
- In 2022, published a magazine "SustainBiz" and also started a plantation drive in Delhi, collaborating with corporations pledging to plant 12000 trees a year.

Intern Volunteer, Ekal Vidyalaya

Grade 10-12

- Empowered 100+ rural children by creating awareness about digital literacy skills and providing training to foster sustainable economies in remote areas.
- Conducted workshops for making education accessible for all children by combining DIY innovation kits and my physics comic book "The Fysics of Fun"

Volunteer, Apna Ghar NGO

Grade 11-12

- Associated with the Apna Ghar NGO Old Age Home, helping in their endeavours to provide a homely environment for more than 500 senior citizens.
- Researched the problems faced by wheelchair-bound elderly, thereby redesigning manual wheelchairs and donating these wheelchairs from the proceeds of design and art gallery.

PERFORMING ART

Dance

- 5th Year trained Bharatnatyam dancer from Swaranjali Sangeet Mahavidyalaya, Prayag Sangeet Samiti.
- Has performed several Bharatanatyam shows and performances with more than 7 years of practice.

Music

- 4th Year-trained Indian Vocal singer from 'SAZ-O-AWAZ', Prayag Sangeet Samiti.
- Involved in various shows and competitions over the 5 years of experience.

SOFTWARE SKILLS

- Blender | Microsoft office | Adobe Photoshop | Adobe Illustrator | Adobe InDesign