SPURTI NIMBALI

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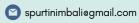
📍 New Delhi, India

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SUMMARY

Highly motivated and ambitious high school senior with a strong STEM focus, showcasing promising proficiency in programming, entrepreneurship and social innovation. Deeply committed to leveraging research experiences, entrepreneurial ventures, technological innovation and volunteering efforts to tackle social causes addressing children with Learning Disorders, neurological diseases and waste management. Published poet, chess enthusiast, and social advocate reflecting a passion for continuous learning and innovation.

EDUCATION

Delhi Public School R.K. Puram, New Delhi, India 2020 - 2024
Class of 2024 ; Grade IX: 97% ; Grade X: 98.4% ; Grade XI: 88.2%
SAT score: 1560 (770 Reading and Writing; 790 Math)
TOEFL score: 116 (29 Reading ; 29 Speaking; 30 Listening ; 28 Writing)
Mukhya Mantri Vigyan Pratibha Pariksha (MVPP) scholar 2021, Directorate of Education, Govt. of Delhi
Army Welfare Education Society (AWES) National Merit Scholarship 2021, 2022
Principal's Gold Medal for exceptional academic achievement
Awarded the Red Blazer (highest honor) for exceptional achievements in extracurricular activities.

EXPERIENCE

Rise Global Winner 2023 October 2023 - Present
- Rise is an initiative of Schmidt Futures and the Rhodes Trust; an anchor program of a $1 billion commitment.
- Recognized as one of 100 global winners from a pool of 14,000+ applicants, after 3 rounds of vigorous selection.
- Committed to a lifetime of service and learning while striving to solve humanity's most pressing problems.

Head Girl 2023 - 2024
- Highest position in the school student government.
- Led a student body of 7000+ students and spearheaded all school events.

School Engagement 2023 - 2024
- Member of Student Council in grades X and XI. 2021 - 2024
- Senior Member @ Think Club (Innovation Club). 2021 - 2023
- Senior Member @ Enship (Entrepreneurship Club). 2021 - 2022
- Member @ Expressions Theatre Club.
- Member @ Biotechnology Club.

Student Researcher March 2022 - June 2023
- A study was conducted in the field of behavioral and social sciences on Learning Disorders under the mentorship of Dr Preetam Hooli, child psychologist and pediatrician.
- Published a first-author research paper on a novel risk assessment and screening tool for Learning Disorders in children in the peer-reviewed journal, IJARIIT.
- Conducted research on the detection of Oral Squamous Cell Carcinoma by analyzing morphological and textural features extracted from histopathological slides.

Founder and Chief Executive Officer- Abled Learning Foundation June 2022 - Present
- Pioneered the establishment of the first non-profit organization in India committed to addressing the needs of children with LDs.
- Conceptualized and executed ALF's mission to raise awareness, eliminate stigmatization, and enhance early identification of LDs.
- Screened nearly 3100 students for signs of LDs across 3 states in India.
- Championed teacher training programs in elementary schools.
- Initiated and managed a Change.org petition advocating for the periodic mass screening of children for Learning Disabilities in elementary schools across India, contributing to systemic change in the education landscape.
- Collaborated and partnered with 6 organizations, stakeholders, educators, and policymakers.
- Received letter of appreciation from Ms. Shayama Chona, President Tamana Foundation, Padma Bhushan and Padma Shri awardee.

Student Ambassador @ IBM SkillsBuild October 2023 - Present
- Youngest Panelist (only school student) at the Panel Discussion: Tech Enthusiasts to Innovators at the Annual IBM SkillsBuild Event 2023.
- Personally interacted with Justina Nixon-Saintil, Chief Impact Officer at IBM.
- Campaigned for IBM's goal of skilling 30 million people globally by 2030.

Quantum Computing Student Researcher @ The Coding School September 2023 - Present
- Selected to attend a semester of Quantum Computing by The Coding School by Qubit by Qubit.
- Received 100% scholarship sponsored by IBM Quantum.
- Learned quantum programming frameworks in Cirq and Python under professors and educators from Oxford University and MIT.

Student Representative at Akhil Bharatiya Shiksha Samagam September 2023
- Representative (invite only) at the thematic session on Internationalization of Education in India as part of the National Education Policy 3.0 organized by the Ministry of Education, Govt. of India.

Founder - Swap 2 Save   **June 2022 - Present**
- Established a non-profit organization promoting proper waste management in local communities.
- Raised awareness about the harmful effects of improper waste disposal through informative sessions and webinars. Conducted 20+ awareness campaigns across Delhi NCR.
- Organized novel incentivization-based waste collection drives, encouraging grassroots-level waste segregation.
- Achieved notable results with the collection of approximately 4,200 kgs of garbage, recycling around 14,500 plastic materials and 1,300 glass bottles.

IBM and CSRBox Student Program Intern   **June 2023 - August 2023**
- Engaged in a dynamic internship course by IBM and CSRBox, learning about technologies like Artificial Intelligence, Virtual Reality, Cybersecurity, and the Internet of Things.
- Selected as one of 3 students to receive funding and mentorship for further project development under the guidance of industry experts.

Girls Who Code Summer Immersion Program   **July 2023 - August 2023**
- Engaged in a transformative Summer Immersion Program (SIP) by Girls Who Code led by industry partners including Morgan Stanley, MetLife, Bank of America, and Accenture.
- Explored a curriculum emphasizing Game Design.
- Collaborated with peers and industry professionals to foster a hands-on learning experience, and programmed 4 games.

Run the Future Entrepreneurship Program   **May 2023 - June 2023**
- Participated in a 6-week entrepreneurship program utilizing the CREATE process to guide innovators through their business journey.
- Engaged in peer-review sessions, collaborated with industry experts, and received continuous feedback and support from educators.

AWARDS/ ACCOMPLISHMENTS

Research
- 3rd Special Award by the American Psychological Association @ Regeneron International Science and Engineering Fair 2023
- Grand Award IRIS National Science Fair 2022; selected as Team India
- National Certificate of Appreciation for Research and Innovation by AWWA 2022
- National Finalist in the Council for Scientific and Industrial Research Innovation Award for School Children 2022
- National Finalist in the Young Scientist India Competition 2023

Computer Science/ Social Innovation
- Grand Award Winner - Technovation Girls Challenge (Junior Category) 2022
- Grand Award Winner - CSIR Jigyasa Vigyan Mohotsav 2022, Ministry of Science and Technology, Govt. of India
- Grand Award Winner - Smart India Hackathon (Junior) 2022, Ministry of Education, Govt. of India
- Grand Award Winner - IIT Guwahati Junior Code Champs Hackathon 2022
- National Finalist - Google India Code to Learn Contest 2021
- Grand Award Winner - IIT Roorkee E-Summit Young Coders Hackathon 2022
- National Finalist- Hindustan Times Code-a-Thon 2020
- National Top 50- Hewlett-Packard CodeBattle 2022

Entrepreneurship
- Winner- India Startup Fest- TAL Transformers Social Innovation Challenge 2023
- International Finalist - Blue Ocean Entrepreneurship Challenge 2021
- All India Rank 12 (out of 20,000 applicants) - National Entrepreneurship Olympiad by IIT Bombay 2021

Chess
- Silver Medal - All India U -19 Girls IPSC Chess Tournament 2022
- Gold Medal - Delhi Zonal U-19 Girls Chess Tournament 2022
- Pin of commendation for exceptional achievements in the field of chess.

Poetry and Creative Writing
- Published book titled 'My Paperboats', consisting of 40+ self-composed poems at the age of 13.
- International Honorable Mention in the UNESCO Heartfulness Essay Challenge 2021
- 50% scholarship (only 7% of entries receive any amount of scholarships) awarded by Immerse Education to attend a summer program @ Cambridge University.

PROJECTS

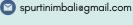**DysDiag - Novel Risk Assessment and Screening for Learning Disorders in Children**   **April 2022- May 2023**
- An innovative risk assessment and screening tool specifically designed for learning disorders in children, with a focus on Dyslexia, Dysgraphia, and Dyscalculia.
- Paper presentation at the All India Conclave of Research, Innovation, and Entrepreneurship 2023 by the Autonomous Institute of Health Sciences and the Atal Incubation Centre (Youngest researcher selected).

Skills: Machine Learning · Digital Innovation · Cognitive Assessment · Project Management · Web Development

EpiCare – Innovative Mobile Application for Epileptic Users   December 2021– June 2022
- Developed a mobile application designed to support individuals with epilepsy and their caregivers.
- Introduced a cutting-edge SOS feature that automatically detects seizures and initiates an emergency response. This includes sending the user's real-time location to caregivers and providing step-by-step aural instructions with visual graphics for lay bystanders to administer immediate first-aid, which when performed accurately can prove life-saving.
- It also contains features that help patients efficiently manage epilepsy on an everyday basis. These include a health log that automatically records the user's seizure history, a medication reminder system and a sleep tracker.

Skills: Entrepreneurship · Mobile Application Development · Digital Innovation · Project Management

Navigo – An Arduino-powered locomotive assistance device for the visually impaired with real-time navigation analysis   September 2021 – January 2022
- Development and integration of a technologically advanced assistive apparatus, enriched with an impediment identification module, water-level detection and fire detection systems. Upon identification of an obstacle or imminent danger, the system activates real-time auditory and vibratory alerts, thereby enhancing safety and providing critical navigational cues.

Skills: Hardware and IoT · Embedded Systems Programming · Sensory Integration · Communication Protocol

Detection of Oral Squamous Cell Carcinoma by analyzing morphological and textural features extracted from histopathological slides   May 2021– July 2021
- Development of a Machine Learning Image Classification model to detect Oral Squamous Cell Carcinoma for early detection through histopathological analysis.
- The objective was to reduce the mortality rates associated with this aggressive form of cancer.
- Recorded a precision of 96.43% and recall of 96.43% which greatly exceeds industry standards.

Skills: Image Processing · Data Science and Analysis · Machine Learning · Project Management

VOLUNTEER EXPERIENCE /COMMUNITY ENGAGEMENT

Swacchta Saarthi Fellow – Waste to Wealth Mission   September 2022 – Present
- Selected as 1 of 4 students from New Delhi to lead the Waste to Wealth Mission, one of the nine scientific missions of the Prime Minister's Science, Technology, and Innovation Advisory Council (PMSTIAC).
- Through the support of the Ministry of Environment, Forest and Climate Change, Ministry of Electronics and Information Technology, Department of Science and Technology, Department of Biotechnology and the Swachh Bharat Mission, I am involved in developing projects by leveraging science, technology, and innovation to create circular economic models that are financially viable for waste management to streamline waste handling in the country.

SPARSH Volunteer – ECHS Polyclinic   August 2020 – Present
- ECHS (Ex-Servicemen Contributary Health Scheme) SPARSH is a project launched by the Ministry Of Defense and the Department of ESW to serve the Veterans of the Defense Forces. It aims at extending, sharing and caring for our veterans in ECHS Polyclinics throughout the country.
- An active volunteer in this noble project for the past few years, continuing to serve those who have served the nation.
- Religiously devoted time, skills and abilities in assisting and helping the retired soldiers and their dependents.