Shreenabh Agrawal

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EDUCATION

Indian Institute of Science, Bangalore, India
Bachelor of Science — Etd: 2025
JEE Advanced, Qualified — AIR: 787
KVPY Fellow, SA 2019 — AIR: 136

AWARDS

PMRBP '21: Awarded the Pradhan Mantri Rashtriya Bal Puraskar 2021 in the category of Science and Innovation. PMRBP is the Highest Civilian Honor in India for people aged under 18.

Diana Award '21: The Diana Award is the most prestigious accolade a young person aged 9-25 can receive for their social action or humanitarian work.

ISEF Finalist '20: Represented India at the Regeneron International Science and Engineering Fair 2020. ISEF is the world's largest science competition for high school students.

International Essay Competition for Young People: First prize in 2018 International Essay Competition for Young People organized by The GOI Peace Foundation and Japanese National Commission for UNESCO.

Asia Book of Records: Awarded and included in Asia Book of Records for 'Maximum articles written by an adolescent to spread awareness about topics related to Science, artificial intelligence, nuclear security at the young age of 16 years and three months.'

IYMC First Prize '20: Stood First in the World in the International Youth Math Challenge, one of the biggest online math competitions for students from all around the world.

PROJECTS

Magnum: Open-source toolkit to turn Math problems into elegant video animations. Integrates GPT-3, Wolfram Alpha, and Manim to automatically create animations of solving equations and plotting graphs.

Epsilon Code: Epsilon Code is a tool that can generate Python code from plain-text description (in natural language) for you. It can also get you instant debugging help- much like StackOverflow responses but faster and better than what humans can do!

Golden Math: Instagram Math Page with 4500+ followers where explanations of complex topics, problems, featured solutions, programmatic implementations, explanatory animations, and insights relating to Advanced Math are posted.

Fight against Yellow Mosaic Virus: Prepared Novel and Effective *Tridax procumbens* Extract for Protection against Yellow Mosaic Virus in *Abelmoschus esculentus* (Okra).

Oldy-Goldy Club: Breakout clubs to facilitate knowledge transfer across generations, to foster feelings of respect and compassion among the young for the elderly.

COMPUTER SKILLS

Languages: Python, C, C++, Java, SQL, Bash, LaTeX.
Web Development: HTML, CSS, JavaScript, Apache, Nginx.
Cloud: Google Cloud Platform (GCP), Amazon Web Services (AWS), Microsoft Azure, DigitalOcean.
APIs: OpenAI GPT-3, OpenAI Codex, WolframAlpha API.

MEMBERSHIPS

ISWA: International Science Writer's Association - The world's oldest international science journalists association, with members on six continents.

ISODN: Chair member of International Science Olympiad Discord Network. A Network of Discord partnered servers which have 15000+ members in total, aimed at International Science Olympiads.

GAMMA: Chair Member of Global and Multicultural Mathematical Association. We are an association of 8 Mathematics lovers on Instagram with a combined following of more than 235,000.

SEK Elite Scholarship: IVL, together with the Swedish institute, arranges the two-week SEK City Elite Scholarship Camp in Sweden for students from India and China.

RadioChico Schweiz: International Youth Correspondent for RadioChico Switzerland, one of the biggest radio stations in Europe.

Service Space: Part of the Laddership Circle project run by Service Space (A volunteer-run organization). Laddership Circles are a space for project initiators to dive into the nuances of leading with inner transformation.

RESEARCH PUBLICATIONS

'Empirical assessment of efficiency of entropy source for random number generators using autocorrelation function test'
in Volume 117(228-234) of World Scientific News (WSN), EISSN 2392-2192.

'The world beyond Electrons, Protons and Neutrons'
published in Science Reporter, published by NISCAIR, CSIR in November 2018 issue, Vol. 55 No. 11, ISSN 0036-8512

'Software Pseudo-Random Number Generators to Hardware True Random Number Generators: a transition in Data-Security'
published in International Journal of Scientific Research in Computer Science Engineering and Information Technology, Volume 5-Issue 2, March April 2019.

'Mahila e-Haat: a gender-based e-commerce initiative'
at IIM Indore in the 2019 IIM Indore NASMEI (North American Society for Marketing Education in India) Summer Marketing IS Conference held on 26-28 July 2019, published in Emerald Publishing.

'Curriculum-based school picnics: a tool for enhancing Scientific Temper'
in January-June issue of Scientific Temper (JST), ISSN:2278–2788, CSIR-NISCAIR National Institute of Science Communication and Information Resources.

'Impact of Visual Aid in creating awareness about Sustainable Tourism in School students'
in Journal of Indian Education, NCERT ISSN 0377-0435 (Print) 0972-5628 (Online).

'Voice disorder in school teachers: an occupational hazard'
in The Botanique-UGC Approved Journal, Sr.No:394, J.No.44025, Volume 21(50-52), 2017.