

Resume

Education

BS-MS | Aug 2018 - April 2019 | IISER Mohali

- CPI: 9.4
- SPI (Sem 1): 9.8
- SPI (Sem 2): 9.8
- SPI (Sem 3): 8.8

12th Grade | Apr 2018 | Primus PU College

- Physics: 99
- Math: 94
- Chemistry: 95

10th Grade | Mar 2016 | Prakriya Green Wisdom School

- Science: 94
- Math: 95

Academic Achievements

KVPY

- Hold a KVPY Fellowship
- Qualified KVPY SA, SX, SB with a rank of 600, 1118 and 24 respectively

Vijyoshi - 2017

- Attended the Vijyoshi camp in December 2017 against KVPY SA

Mimamsa Center toppers

- My team was the centre topper in Mimamsa 2019, a Science quiz conducted by IISER-P.

Extra-Curricular Endeavors

Built The IISER M App for Android and PC - 2019

- I created a majority of the Unofficial IISER-M App for [Android](#). A [PC version](#) of the same is also underway.

Contributed in building the Minivet Birding App

- I contributed in making the [Minivet Birding App](#) under [Dr. Manjari Jain's Behavior and Ecology Lab, IISER M](#). Minivet is an app developed to assist both budding and experienced birders.

Teaching underprivileged Children as part of RTE Act - 2016

- As a way to give back to the community, I taught underprivileged children English and Mathematics for two weeks in my school in 2016. The group involved two children, both of whom had learning disorders.

Convener, Turing Club (Coding Club), IISER Mohali | 2019-20

- I was the convener of the Turing Club of IISER Mohali in the academic year of 2019-20.

Knowledge of Multiple Coding Languages

- I know C++ and actively code in Python, Java (Android). I also am presently learning Julia for Scientific Computing. Please visit [my GitHub account](#).

Research Experience

Linear Algebra of Quantum Mechanics and the simulation of a Quantum Computer | Arvind | Summer 2019

- This was an introductory reading to the Mathematical Structures that underlie Quantum Mechanics and then take it forward to a theoretical introduction to Quantum Information and Quantum Computing. I also attempt to simulate a Quantum Computer on a Classical computer and making a [Julia module](#) for the same. This paper serves as a very brief introduction to Quantum Computing and documentation of the code in the form while publishing.

Black body radiation in special relativistic frames | JS Bagla | Winter 2018

- As part of my 2018 winter project, I took up a project in Special Relativity under JS Bagla, wherein I looked at how Black Body Radiation transforms in a frame that is moving uniformly with respect to the source. We see that the radiation is no more uniform, leading to a force on the particle. The [quantitative analysis](#) of this force is done using numerical methods in Julia.

Earthian awards | Wipro-Prakriya | Sept-Dec 2014

- Wipro LTD. organizes “[The Earthian Awards](#)” as part of their CSR initiative which involves teams from schools and colleges submitting a research report on the broad topic of the year. Our report dealt with the lakes of Bengaluru and how rapid industrialization and urbanization, coupled with unempathetic public policies, have led to declining quality and quantity of the natural resource.

Contact Me

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