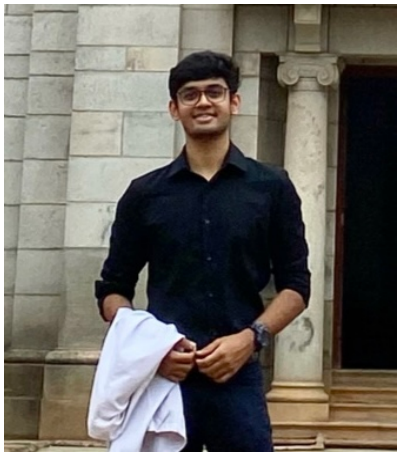
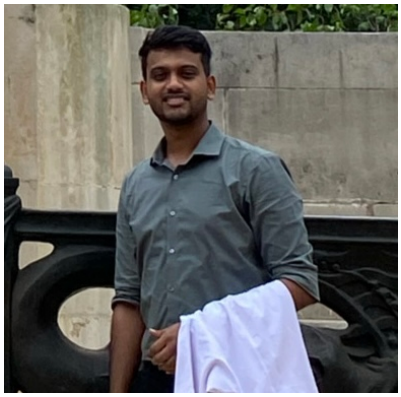
# Indian Institute of Science: MBBS Research Internship Program – REPORT

Recently, **The Indian Institute of Science** had been delighted to host a research internship program for MBBS students to facilitate research exposure and help develop future physician-scientists in the country. The key thematic areas of Research included Cancer Biology, Bioengineering, Artificial Intelligence, and Data Sciences, Endocrinology, Biomedical devices, and many others. The internship selection included only 24 applicants out of around 1000 students from all over the country based on their application, academic performance, and research experience. This included 4-8 weeks of work rotation in the key laboratory working on those relevant thematic areas. Stipend for the same was provided after completion of the project. From Bangalore Medical College and Research Institute, 3 students were selected amongst these top 24. These included: ***Pritik A Shah, Aditya Chandrashekar, and Kshitij Naik***. All three are final-year students and have been selected to work in the top laboratories of IISc.

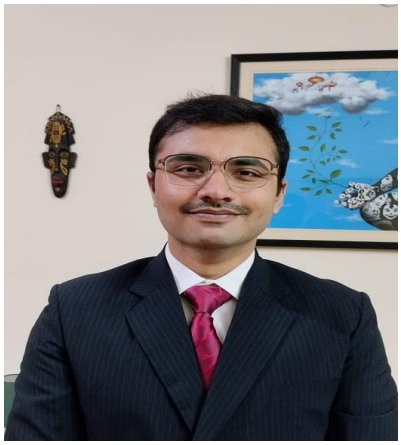
**About the Candidates :**



***Pritik A Shah*** worked under Professor Deepak Saini in the Department of Molecular Reproduction, Development, and Genetics and worked on Optimizing the aged liver model using Primary Human Stellate Cells LX-2 and Human Liver Epithelial Cancer Cells HepG2 to study the effect of aging on liver fibrosis, using a 2D co-culture model as his study project. Clinically this would help assess the role of ageing as a risk factor for liver fibrosis.



***Aditya Chandrashekar*** worked under Professor Kavita Babu In the Department of Neurosciences, working on a project involved in understanding the molecules and mechanisms that are in play during a synaptic function. His work utilizes the free-living nematode- Caenorhabditis elegans to study how neurons “talk” to each other.



***Kshitij Naik*** worked under Professor Praveen C Ramamurthy from the Department of Materials Engineering. His project work was regarding Real-time Detection of Various Ions in Human Blood and Urine using Solid State devices, enabling the mass production of cheap and accurate diagnostic devices that can be used in resource poor areas. He is now also working under Indriya Sensors, an IISc backed start-up

**Year: 2022 – 2023**