Harsh Bhati

3rd Year Undergraduate

Department of Computer Science and Engineering

Email : harshb20@iitk.ac.in

Phone : +91-9717819560

Academic Qualifications

Year	Degree/Certificate	Institute	CPI/%
2020 - Present	B.Tech	Indian Institute of Technology, Kanpur	4.57/10
2020	CBSE(XII)	BGS International Public School, New Delhi	95.2%
2018	CBSE(X)	BGS International Public School, New Delhi	95.8%

Scholastic Achievements

- Secured **All India Rank 694** in **JEE Advanced 2020** among the 1.5 Lakh shortlisted candidates.
- Secured **99.7 Percentile** among 8.6 lakh candidates in JEE Mains 2020.
- Secured **All India Rank 28** in **KVPY SA** conducted by IISc Bangalore.
- **Joint Delhi NTSE State topper** in NTSE stage 1 and was awarded NTSE Fellowship in 2018.
- Cleared **NSEA** conducted by **Indian Association of Physics Teachers** in 2019.
- Cleared **JSTSE** conducted by **Department of Education New Delhi** with a State Rank of 27th.
- Secured **International Rank 5** in **International Mathematics Olympiad** conducted by **Science Olympiad Foundation** Stage 1 2017-18.

Key Projects

- **Dynamics of Life** *(March'21- May'21)*
  Mentor: Mohit Kulkarni
  - Studied the human brain starting from firing principles of neuron to the development of human body at the genetic stage and why only some parts of the evolution have occured throughout history such as the absence of three eyes despite it giving us a big evolutionary edge.
  - Saw the implementation of fractals to topics of biological life such as heart rythms and shapes of fern leaves.
  - Conducted Covid-19 modelling inside campus.
- **Reinforcement Learning** *(April'21-July'21)*
  Mentor: Adit Khokar
  - Learned about basics of neural networks and various projects related to Reinforcement learning
  - Topics covered include Markov Decision Processes,Rewards,Q-learning,Value iteration and policy iteration.
- **Introduction to psychiatry** *(April'22-June'22)*
  Mentor: Self Project
  - Studied about the basics of SSRI drugs and thier use in as a first stage and in treatment resistant depression.
  - Studied about memory loss and changes in gene expression in people with chronic floxetene exposure.
  - Studied the benzodiazepine drugs and their role in anxiety reduction.

Technical Skills

- **Programming Languages:** C, C++, HTML, LaTeX, MATLAB, Python, Java, CSS, Swift, Go
- **Software and Libraries:** GNU Octave, Git, Micro-Cap , Tensor Toolbox, Jenkins, Phabricator

Relevant Courses

Fundamentals of Computing	Linear algebra and Differential Equations
Introduction to Electronics	Probability for Computer Science
Machine Learning,Coursera, Stanford university	Discrete Mathematics
Operating systems*(ongoing)	Theory of Computation*(ongoing)