

RAJDEEP SINGH DHINGRA

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EDUCATION

📍 A-54 Priyadarshini Vihar, Delhi-92 ☎ (+91)-8527930494

Indian Institute of Technology, Delhi
BTech in Computer Science and Engineering
Disha Delphi Public School, RK Puram Kota
+2 Education, PCM + Computer Science
Disha Delphi Public School, RK Puram Kota
Class 10th Board Examinations

July 2019 - May 2023 (Expected Graduation)
Overall CGPA 9.87
April 2017 - April 2019
93.8%
July 2016 - April 2017
CGPA : 10.0

ACHIEVEMENTS

- **Google Code Jam** - Securing **Global Rank 1250** in **Google Code Jam Round 1** 2020, therefore qualifying for **Round 2**. Secured a rank in **Top 150** amongst all contestants from India in **Round 2**.
- **6 stars** on CodeChef with rating of **2216**(username- *rajdeep2001*). **Master** on Codeforces, with rating of **2229**(username - *Rajdeep*).
- **Facebook HackerCup 2020** - **Tshirt Winner** in Round 2. 733 Rank in Qualification Round. Cleared Qualification, Round 1 of FB Hacker cup. (FB Account - *rajdeepphysics@gmail.com*)
- **JEE Advanced 2019** - Secured **All India Rank 38** amongst 1.3 Million candidates.
- **JEE Mains 2019** - Secured **All India Rank 104** amongst 1.3 Million candidates.
- **Kishore Vaigyanik Protsahan Vojana(KVPY)** - Secured **All India Rank 3** in (KVPY) Fellowship 2018 conducted by Department of Science and Technology Govt. of India.
- **Aditya Birla Scholar** - awarded to the **Top 16** engineering students in India having **Outstanding Excellence**.
- **Indian Olympiad in Informatics(INOI)** (Twice, 2018 and 2019) - Selected in **Top 30** Candidates in India to Attend the Training Camp for IOI. Awarded the **Outstanding Performance** Certificate in the same.
- **International Junior Science Olympiad(IJSO)** - Won **Gold Medal for India** at the 13th IJSO held in Bali-Indonesia 2016. **Represented India at the International Level**, in a Team of **Top 6** students from India.
- **Asian Physics Olympiad(APHO)** - Won **Silver Medal for India** at the 19th APHO held in Hanoi-Vietnam 2018. **Represented India at the International Level**, in a Team of **Top 5** students from India.
- **National Mathematics Talent Contest** - Thrice Secured **All India Rank 6, 10, 11** NMTC by AMTI. Twice Cleared the **RMO**.
- **CodeMania** - Secured **First position** twice in CodeMania 2.0 and 3.0, organised by the **Algorithms and Coding Club, IIT Delhi**.
- **Indian National Physics Olympiad(INPhO)** - **Gold medal** and Certificate of Merit in NSEP-INPhO 2017-18 and 2018-19 for being in **Top 30** Students in India. Selected for the Training Camp of **IPhO**.
- **Indian National Astronomy Olympiad(INAO)** - **Certificate of Merit** in INAO 2016-17 and 2017-18 for being in **Top 30** Students in India. Selected for the Training Camp of **IOAA**.
- Been **4 times** awarded **National Top 1%** in **National Standard Examination in Physics**(twice) and **NSE-Astronomy**(twice).

PROJECTS

- Memory Allocation System** Prof Rahul Garg, Computer Science and Engineering, IIT Delhi *November 2020 - Ongoing*
- Designed a System using which Operating Systems allocates and frees memory used by programs.
 - Made a Defragmentation Program to make Effective use of memory.
 - Used AVL Trees to Improve Response times by 40%.
- ScanUp - Document Scanner App** Click Here *June-July 2020*
- Improved Edge Detection Accuracy by 30% from other similar apps using OpenCV, Java, Flutter, Objective-C.
 - Improved image Quality by 20% by creating a Shadow Removal Filter using OpenCV Library.
- Internship at "Enthire"** *Dec 2019*
- Worked on Seamless integration of Documents across various users. Improved Speed by 10%.
- Parking Counter** Prof Bhim Singh, Electrical Engineering, IIT Delhi *March-August 2020*
- Designed a Car Parking Counter using a 4 digit 7 segment display, Timer-555 and Pressure, Laser Sensors.
 - Added in modes for one-way and two-way exits and Interface to make it more intuitive.
- Distance Calculator - iOS Application** Click Here *June-July 2020*
- Used Pods to get the Distance between one source and up to 4 destinations. Uses API Calls to fetch Live Data.
- Currency Converter - iOS Application** Click Here *June-July 2020*
- Fetch Live Data from an API to give Latest Currency Rates. Improved Fluidity of the App.

RESEARCH INTERESTS AND TECHNICAL SKILLS

Research Interests: Human Computer Interaction, Algorithms, Data Structures, Discrete Mathematics, Computer Vision, Machine Learning, Artificial Intelligence

Skills: C++, Java, Python, Objective-C, VHDL, MATLAB, OpenCV, FPGA, Arduino, Autodesk Inventor, Firebase, Android, iOS