# Abhijay Mitra

## 2nd Year

✉ abhijay.mitra@iitkgp.ac.in

☎ +91 9038077746

🌐 abhj.github.io
linkedin.com/in/abhj
codechef: abhj
codeforces: abhj

## Education ————

B.Tech(Hons) Instrumentation Engineering | IIT Kharagpur | 2022(expected) | 9.12/10

Class XII
DPS Ruby Park | 2018 | 84.4 %

Class X
South Point High School | 2016 | 10/10

## Skills ——————

●Competitive Programming
●Backend Software Development
●Machine Learning, Deep Learning: Anaconda, Jupyter Notebook, Pytorch
●Languages: C++, C, Octave
●WebDev : HTML, CSS, JS
●Design : Solidworks
●Other : Cuda

## Extra-Curricular —

●Member @ LBS Hall Chess Team IIT Kharagpur | 2018-19
-Also represented LBS Hall in inter-hall general championship

●Member @ LBS Hall Maths Olympiad Team IIT Kharagpur | 2018-19

●Tutor @ SWG PDS doubt clearing sessions IIT Kharagpur | 2019
-Taught and cleared doubts in programming of freshmen

●Hobbies: chess, solving math olympiad problems, photography, table tennis, writing on Quora (over 0.6 million content views)

## Work Experience & Internships

**Nov -Dec'19** — Software Engineering Intern — Proficient Vision Solutions Private Limited
Guide: Prof Sudipta Mukhopadhyay & Mr Prabir Kr. Ghosh
●Aimed to remove rain and fog from video streams in real time.
●Developed license for product (which encrypted machine details like MAC Id, hard disk id, date of installation) along with user provided details such as id, password, number of concurrent users, and cameras to be granted access.
●Built the pre-processing steps of the fog removal code, incorporating histogram equalisation and stretching, in cuda to enhance speed of computation multiple folds.
●Demonstrated the product at WBP Telecom Office under foggy conditions generated by smoke from fire.

## Positions of Resposibility

**Apr'19-Present** Core Team Member @ Technology Transfer Group IIT KGP
●Conducted several IPR workshops & contacted many companies for Sponsorship
●Developed good relations with leading professors of the institute in order to invite them for the seminars

**Jan'19** Volunteer @ Kshitij IIT Kharagpur 2019
●Conducted, invigilated and evaluated several olympiads.
●Had a hands-on experience on fest management

**Jul'19-Present** Cadet @ 3 Bengal Tech Air Squadron NCC
●Actively participated in many parades, blood donation camps
Camped in Combined Annual Training Camp '18

## Test Scores

**Apr'18** JEE Main '18
●Secured 203 marks & AIR 5444 / >12 lakh (1.2 million) students.
● In top 0.45% of all applicants.

**Jun'18** JEE Advanced '18
●Secured 189 Marks &AIR 2157 / 231024 students qualified for the examination.
●In top 0.93% of all selected candidates

**Apr'18** WBJEE '18
●Secured 133.58 Marks & Engg Rank of 92 / >1 lakh students.
●In top 0.092% of all applicants

**May'20** Kickstart Round C
Globally ranked 731st among all Participants

## Participation in other events(IIT KGP)

**NSSC 2018** Participated in Aerodynamic Plane Building Workshop

**Kshitij 2020** Partcipated in Source Code and Overnite.
Cleared first round in Overnite.

## Relevant Courses

**Institute** Transform Calculus, Programming and Data Structure (Theory and Lab), Maths I, Maths II , Algorithms (Theory and Lab)

**MOOCs** Machine Learning | Stanford University | Coursera
Divide and Conquer, Sorting and Searching, and Randomized Algorithms | Stanford University | Coursera.
Graph Search, Shortest Paths, and Data Structures| Stanford University | Coursera