# Sarthak Rout

Second Year Undergraduate, Indian Institute of Technology Kanpur Department of Computer Science and Engineering

sarthakr@iitk.ac.in +91 - 9664087578

### ACADEMIC ACHIEVEMENTS

Year	Degree	Institute	$\mathbf{CPI}/\%$
2019-Present	B.Tech Computer Science and Engineering	Indian Institute of Technology, Kanpur	9.50/10
2019	CBSE(Class XII)	Sir Padampat Singhania Public School, Kota	95.2/100
2017	CBSE(Class X)	DAV Public School, Chandrasekharpur, BBSR	10/10

### SCHOLASTIC ACHIEVEMENTS

• Recipient of Academic Excellence Award from IIT Kanpur

2019

• Secured All India Rank 202 in JEE (Advanced) among over 0.2 million students

2019

• Secured All India Rank 207 in JEE (Main) among over 1.3 million students

2019

• Qualified for OCSC of IJSO and IAO 2016, IOAA 2017, IOAA 2018, IChO and IOAA 2019 organised by HBCSE.

• Recipient of Kishore Vaigyanik Prostahan Yojana (SA) fellowship award with AIR 42, IISc Bengaluru

2018

• Recipient of National Talent Search Scholarship, NCERT

2017

#### **PROJECTS**

## Private Computation using Cryptographic Primitives

(May '20 - Jul '20)

By SnT Club | Mentor: Aditya Gulati | IITK

- Learnt about Private Computation, FSS, FHE, Yao's Garbled Circuits etc.
- o Learnt about GRPC, Compiler Theory and Rust.

• InfoSec IITK

(Feb '20 - Apr '20)

By Association of Computing Activities | IITK

- Found critical vulnerabilities in OARS, IITK
- Learnt about SQL Injection, XXS and XXE injection along with how to prevent them.

### • Gradeless - Course Project ESC101

(Aug '19 - Nov '19)

Under Dr. Piyush Rai | CSE | IIT Kanpur

- Developed a Web-App to check marks of answer sheets having T/F and MCQ questions.
- We used Angular 8 as Frontend and Express as Backend with Python | OpenCV as scripting language for the Image Processing and Machine Learning part.

### TECHNICAL SKILLS

- Programming Language: C, C++, Python, TypeScript
- Libraries: Pandas, SciKit-Learn, OpenCV, Selenium
- Tools: GitHub, VS Code, LATEX

### Relevant Courses

Fundamentals of Computing Data Structures and Algorithms Introduction to Electronics

Real Analysis and Calculus Number Theory

Linear Algebra and ODE Computational Methods in Engineering

\* : Ongoing course

### Position Of Responsibility and Extracurriculars

- Secretary, Programming Club
- Secretary (Startup Internship Program), Entrepreneurship Cell
- Interned at Edvizo as Mentor in Maths teaching JEE Asiprants.
- Secured 16th position of Merit in HCL HackIITK Hackathon for detection of malware using Machine Learning
- Competitive Programming: Codechef

Hyperlinks are present at appropriate places.

Last Updated: January 8, 2021