



## Sameer Gupta

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### Education

#### Indraprastha Institute of Information Technology, Delhi

B.Tech (CSE)

2021 - present

CGPA: 8.53

(Till 3<sup>rd</sup> semester)

#### Somerville School, Vasundhara Enclave, Delhi

CBSE, Standard 12, PCM+CS

2020-2021

Percentage : 94.4%

#### Somerville School

CBSE, Standard 10, PCM+CS

2018-2019

Percentage : 96%

### Skills

<b>Expertise Area:</b>	Data Structure & Algorithm, Operating System, OOPs, Competitive Programming, Machine Learning, Database Management, L <sup>A</sup> T <sub>E</sub> X
<b>Programming Languages:</b>	Java, Python, C++, C
<b>Tools and Technologies:</b>	Git, Github, Virtual Box, Django, React, IntelliJ IDEA, PyCharm, PyTorch, VSCode, Overleaf, Google Collab, Kaggle, Figma
<b>Technical Electives:</b>	Algorithm Design & Analysis, Data Structures & Algorithms, Advanced Programming, Operating System, DBMS, Linear Algebra, Probability & Statistics, Calculus, Discrete Mathematics.

### Work Experience

#### Undergraduate Researcher

(Dec, 22 - Present)

Advisor: Dr. Sambuddho Chakravarty, Dr. Rinku Shah

To explore and identify the bottlenecks in firewall technologies and develop a faster firewall solution by leveraging hardware, stack, and application layer processing for efficient traffic handling.

#### Intern at TLE Eliminators

(Jan, 23 - Present)

Built the Feedback System for TLE Eliminators, a competitive coding learning platform led by Priyansh Agarwal.

### Projects

#### Drug-Detection

Team Size-1

Using chEMBL dataset and RandomForestClassifier to predict pIC50 values of acetylcholinesterase enzyme. Repository [here](#).

(Jan, 23 - Feb, 23)

#### Potato-Diseases

Team Size-1

Using Keras and TensorFlow to create a potato disease detector. Repository [here](#).

(Jan, 23)

#### Tank Stars - GUI Game

Team Size-2

A Clone of the popular Tank Stars Game, which focuses on tank fights. Players are allowed to control the movements and attack trajectories. Repository [here](#).

(Aug, 22 - Dec, 22)

#### ASM-Assembler-Simulator

Team Size-2

Implemented a Custom Simulator and Assembler to convert assembly code to binary code (with error checks), and simulates the registers and execution. Repository [here](#).

(Jan, 21 - Apr, 21)

## Market and News API

For finance-related information, including news and prices, using Python3 and APIs. Done as the bonus project for the course Introduction to Programming (CSE101). Final report [here](#).

Team Size-3

(Jan, 22 - March, 22)

## Positions of Responsibility

IEEE Executive community Member	(Jan, 22 – Present)
Content Writer & Financial Analysis at Finnexia	(Jul, 22 - Present)
Technical Head at D4rkc0de	(Jan, 22 - Present)
Core Member at OWASP	(Jan, 22 - Dec, 22)

## Awards and Achievements

- **Flipkart GRid 4.0** Level 2 Qualifier.
- Won the **Best Educational CTF Challenge Award** at DEF CON 30.
- Ranked **2nd WorldWide at WreckCTF 2022** as a member of d4rkc0de.
- Ranked **4th Worldwide at the Digital Overdose CTF 2022** as a member of d4rkc0de.
- Ranked **10th at the DEF CON Delhi 0x05 CTF** organised by DC911 group.
- **Won Aurora CTF** organised by DTU as a member of d4rkc0de.

## Interests and Hobbies

- Machine Learning
- Finance
- Basketball
- Movies
- Music

Declaration: The above information is correct to the best of my knowledge.

Sameer Gupta

Date: February 23, 2023