

# Akarsh Gupta

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## Education

### Indraprastha Institute of Information Technology

B.Tech. (Computer Science and Design)

2021-2025

CGPA: 6.7

(till 4th Semester)

### Abhinav Public School, New Delhi

CBSE

2017-2019

Percentage: 91.8

### Amity International School, Gurgaon, Haryana

CBSE

2016-2017

CGPA: 10

## Skills

<b>Expertise Area</b>	Data Structures & Algorithms, Web and App development, Competitive programming, Object-Oriented Programming, Operating System
<b>Programming Language</b>	C, C++, Python, Java, JavaScript, SQL
<b>Tools and Technologies</b>	HTML, CSS, MySQL, Figma, Canva, libGDX, TinkerCad, React Native
<b>Technical Electives</b>	Data Structures & Algorithms, Operating Systems, Database Management System, Computer Organization, Algorithm Design and Analysis, Introduction to Human Computer Interaction, Introduction to Programming

## Projects

### Aarogya: A web Application

Guide: Dr. Dhurjati Majumdar

Contributed to the development of the web app "**Aarogya**" aimed at assisting elderly individuals in their daily needs. I led the front-end development efforts utilizing **React**, ensuring a seamless user experience and an intuitive interface. Collaborated in the end-to-end design process, from ideation to Low-Fi prototype creation using **Adobe XD**. **The project stood out among 20+ submissions and was selected to be showcased in RIISE-2023** (Research and Innovation Incubation Showcase 2023), due to the innovative idea and user-friendly interface.

### Kinect Gladiator Game: OpenCV

Guide: Dr. Anmol Srivastava

Designed and developed a unique **Kinetic Wireless Controller** for the popular Gladiator game. The controller incorporated machine learning algorithms and motion detection capabilities to enhance the gameplay experience. Utilized a Makey Makey kit for motion detection and integrated machine learning techniques to enable the system to remember user moves, providing a personalized gaming experience.

### PurePlanet : An Online Retail Store for Recycled Products

Guide: Dr. Vikram Goyal and Dr. Mukesh Mohania

Language : SQL

Developed a robust Online Retail Store Command Line Interface (CLI) in **Python**, encompassing comprehensive functionalities such as login, purchasing, and checkout for both Admin and User roles. Integrated the site's backend information using **MySQL Workbench**, ensuring seamless data management. Aim to develop a full-fledged website for recycled and local products, leveraging the combined power of HTML, CSS, JS, and React.

### Personal Portfolio

Leveraged advanced front-end techniques to design and develop a visually appealing and interactive webpage, showcasing my resume and skills. Implemented responsive design principles, optimizing performance and user experience for various devices and screen sizes.

### LRU-Cache

Language : C++

Designed and implemented an LRU (**Least Recently Used**) Cache, leveraging the power of Doubly Linked Lists and HashMaps. Developed an efficient and scalable solution to store and manage high-speed read/write data.

### Sudoku Solver: Backtracking Implementation

Language : C++

Successfully developed a Sudoku Solver using **recursion and backtracking** logic, capable of solving any 9x9 complex puzzle efficiently.

## Achievements

- Solved **300+** challenging data structures and algorithms problems on [Leetcode](#) and **200+** problems on [GeeksForGeeks](#).
- Scored **99.01%**ile JEE Mains
- **Led the front-end development of "Aarogya"** a web app that stood out among 20+ submissions and was **selected to be showcased in RIISE-2023 (Research and Innovation Incubation Showcase 2023)**.

## Interests and Hobbies

- Web Development
- App Development
- Competitive Programming
- Cricket And Squash
- Singing

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

Akarsh Gupta

Date: June 24, 2023