

# SHIVAM GUPTA

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## Education

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**Indian Institute of Information Technology Bhopal, India**

*Bachelor of Technology in Computer Science and Engineering*

**December 2022 - June 2026**

**CGPA: 8.06** (upto 3rd Sem)

**Hanraj Modern Public School, Jhansi**

*XII CBSE BOARD*

**March 2020 - March 2022**

**91%**

**CKC Academy, Jhansi**

*X CBSE BOARD*

**March 2008 - March 2020**

**93%**

## Projects

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**Sorting Visualizier** | *HTML, CSS and Javascript*

[Github](#)

- Objective: To create an educational tool aimed at captivating students' attention while enriching their comprehension of sorting algorithms
- Created the frontend using JavaScript, integrating functionalities for adjusting sorting speed and variations across arrays of diverse sizes
- Incorporated 5+ key sorting algorithms, utilizing their characteristics to demonstrate their performance across diverse values and lengths

**Codeforces web scrapping** | *Selenium, Matplotlib*

[Github](#)

- Objective: Developed a web scraping script using Selenium to extract submission data from Codeforces, enabling efficient analysis of user activity and performance.
- Utilized Selenium's capabilities to navigate and interact with the Codeforces website, collecting information on the number of accepted and not accepted submissions for a given user
- Implemented data visualization techniques with matplotlib to present the submission counts by verdict in an easily understandable bar chart format, aiding in visual analysis and interpretation

**Rubik's Cube Solver - using Korf's IDA\* Algorithm** | [Korf's Research Paper](#)

[Github](#)

- Modelled a virtual Rubik's Cube (3 x 3) in 3 different models/classes (3D Array Model, 1D Array Model, BitBoard Model)
- Implemented OPPS concepts like Classes and Objects, Virtual Functions and Abstract Classes, Inheritance, Operator Overloading
- Achieved a solving time of under 3 seconds for a Rubik's Cube jumbled 8 times, using BFS, DFS, and IDDFS algorithms
- Implemented the Korf's IDA\* Algorithm, achieving a solving time under 10seconds for a Rubik's Cube jumbled 13 times

## Skills

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**Languages:** C, C++, Python, HTML, CSS, JavaScript, SQL, Typescript

**Techstack:** Tensorflow, Keras, Django, Selenium, Matplotlib

**Developer Tools:** Git, Github, Gitbash, VS Code, Google colab

**Soft Skills:** Team Management, Interpersonal and Intrapersonal Skills, Public Speaking, Content Writing

## Certificates and Achievements

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- Secured a global **rank 262** in Starters 126, and global **rank 313** in Starters 125 '24
- Secured a **rank 81** out of **1000** in **Coderush** organized by Algouniversity
- **4 star coder on CodeChef** (highest rating - 1840)