

SHIVAM GUPTA

+91-8303660368 shivamg5080@gmail.com LinkedIn Github Codechef Leetcode Portfolio

Education

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

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

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

- 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 - 1839)