

Gaurav Singh

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Leetcode (350+): <https://leetcode.com/u/GauravSingh2048/>

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EDUCATION

Year	Degree	Institute	CGPA/%
2023–Present	B.Tech CSE	Graphic Era Hill University, Dehradun	8.8/10.0
2022	12th CBSE	Saigrace Academy International School, Dehradun	83.33%
2020	10th CBSE	Saigrace Academy International School, Dehradun	61.67%

PROJECTS

Road Accident Detection and Alert System (CNN) [\[View\]](#)

Mar 2025

Developed a deep learning-based system for real-time detection of road accidents from video feeds, leveraging CNN for event classification and incorporating an automated emergency alert workflow; achieved over 92% accuracy in detection.

Technologies Used: Python, CNN, OpenCV, TensorFlow.

Sorting Algorithm Visualizer [\[View\]](#)

Jun 2025

Designed an interactive visualization tool to demonstrate various sorting algorithms. Provided real-time graphical representation of element movements to help beginners understand sorting logic.

Technologies Used: HTML, CSS, JavaScript.

Face Recognition using KNN And OpenCV [\[View\]](#)

Mar 2025

Developed a real-time face recognition system leveraging OpenCV for face detection and a custom KNN classifier for identity prediction using webcam data implemented face dataset generation, pre-processing with NumPy.

Technologies Used: Python, OpenCV, NumPy, KNN.

SKILLS

- **Languages:** C, C++, Java, Python, HTML, CSS, JavaScript, SQL
- **Tools/Libraries/Frameworks:** Git, Github, OpenCV, TensorFlow, Pandas, Numpy, matplotlib
- **Soft Skills:** Problem Solving, Communication, Team Leadership, Consistency

ACHIEVEMENTS

- Solved 350+ problems on LeetCode and participated in contests regularly
- AWS Cloud Practitioner Essentials (2024): Completed foundational training covering core AWS services, global infrastructure, security, pricing, and support models.
- Selected as a Contributor for **GirlScript Summer of Code 2025 (GSSoC '25)** and contributing to open-source projects under mentorship.