

# GAURAV JAIN

B.Tech (3rd Year) | Software Developer | AI & Full Stack Enthusiast

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## Profile Summary

Innovative and results-driven Computer Science student with a passion for solving complex problems and pushing the boundaries of emerging technologies. Skilled in building scalable solutions, optimizing performance, and leveraging AI and cloud technologies to drive real-world impact. Always eager to tackle challenging projects, learn cutting-edge tools, and turn ideas into reality.

## SKILLS

**Languages:** Python, JavaScript, C++, C, Bash, HTML/CSS

**Databases:** MongoDB, PostgreSQL, MySQL, SQLite

**Web Development:** Node.js, Express.js, React.js, Next.js, REST APIs, Tailwind, CSS

**DevOps & Cloud:** AWS (EC2, S3, Lambda), Docker, Kubernetes, Git, GitHub

**Machine Learning & Data Science:** TensorFlow, Scikit-learn, Pandas, NumPy, Matplotlib

## PROJECTS

### Carbon Footprint Tracker (React, Flask, MongoDB, TensorFlow)

- Built a real-time carbon tracking app that estimates carbon emissions from transportation, shopping, and daily habits.
- Integrated barcode scanning to track product footprints and GPS-based emission tracking for transportation.
- Designed an ML-powered recommendation engine to suggest eco-friendly alternatives.
- Gamified experience with leaderboards and partnerships with eco-friendly brands.

### DSA Visualizer (Python, React, D3.js, Flask, WebSockets)

- Created a visual interactive tool to help users understand sorting, searching, and graph algorithms.
- Implemented step-by-step execution animations with WebSockets for real-time feedback.
- Used D3.js for dynamic graph visualization of trees, linked lists, and recursion.

### File Compression Utility (Python, Huffman Coding, Bit Manipulation)

- Built a lossless file compression tool using Huffman Encoding for efficient storage.
- Implemented bitwise operations to optimize encoding and decoding performance.
- Achieved ~40% average compression ratio for text and binary files.

## Certifications & Training

- Business Analytics for Decision Making – University of Colorado Boulder
- Strategy and Game Theory for Management – IIM Ahmedabad
- Introduction to Generative AI – Google
- AWS Cloud Operations Course Certificate – AWS
- Android Developer Virtual Internship – Google for Developers & AICTE
- Digital Marketing – ExcelR

## EDUCATION

B.Tech Honors in **Computer Science Engineering** (3rd Year, KIIT DU) – **CGPA: 8.3**

- Minor in Financial Economics** (Specializing in Data Analytics & Investment Strategies)
- Relevant Courses: Cloud Computing, Machine Learning, Operating Systems, DBMS, DSA

GVN The Global School (12th, 2022)

Delhi Public School, Neelbad, Bhopal (10th, 2020)