

YASHIKA GOYAL

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Education

Graphic Era Hill University, Dehradun

Aug. 2022 – Present

Bachelor of Technology in Computer Science

9.15/10 CGPA

Projects

Real Time Collaborative Code Editor | *Node.js, TypeScript, Socket.IO, Next.js, Monaco Editor* **Mar 2025 - Present**

- Developing a real-time collaborative code editor using **Node.js, TypeScript, and Socket.IO**, enabling live code sharing with multi-user support.
- Integrated support for 5+ programming languages with dynamic language switching and syntax highlighting.
- Working in an agile environment, focusing on scalability, modular architecture, and fast iteration cycles.

Disk Visualizer | *React, JavaScript, Bootstrap, Chart.js*

February 2025

- Implemented a comparison tool for disk scheduling algorithms (FCFS, SSTF, SCAN, etc.) to evaluate disk head movement efficiency.
- Designed a responsive frontend using HTML/CSS/JS with real-time data visualization.
- Used Chart.js to represent algorithm performance interactively, improving comprehension and reducing user effort.

Fake News Detection | *Python, NLP, Flask*

November 2024

- Built a machine learning model to detect fake news using Python and NLP.
- Achieved 98% accuracy with preprocessing and classification algorithms.
- Deployed the model using Flask for real-time predictions.

Vehicle Detection and Counting | *OpenCV, Deep Learning, Computer Vision*

Aug 2024

- Developed a real-time vehicle detection and counting system using OpenCV and deep learning.
- Optimized accuracy with object tracking and frame processing for varying conditions.

Technical Skills

Languages: C, C++, Python, Java, HTML, CSS, JavaScript

Developer Tools: VS Code, Google Cloud Platform, Jupyter Notebook, AWS

Databases: SQL, MongoDB, Postgres

Technologies/Frameworks: GitHub, React Native, React.js, Node.js, Debugging

Machine Learning Tools: Flask, Pandas, Tensorflow, Matplotlib

Relevant Coursework

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|-------------------------------|-----------------------|--------------------|
| • Data Structures | • Database Management | • Machine Learning |
| • Object-Oriented Programming | • Computer Vision | • Cloud Computing |

Achievements

- **Competitive Programming:** Solved 600+ DSA problems across various platforms with **5 star** on HackerRank.
- **Runners Up** at **JP Morgan Chase Code for Good hackathon 2025**.
- Shortlisted among the **top 50 women coders** for Standered Chartered Diversity Hackathon 2025.
- Contributed to **open-source** through GirlScript Summer Of Code.
- Published a **research paper** on *Technology manouvre to avoid and ascertain terrorism*.

Leadership

The Heritage School

June 2021 – March 2022

School Prefect

- Managed disciplinary duties and ensured the smooth functioning of daily school activities.
- Organized and led various school events, including cultural and sports events. Acted as a mentor and guide for junior students, promoting a positive school environment.

Soft Skills

Effective Communication, Problem-Solving, Critical Thinking, Planning, Time Management, Adaptability