Saksham Ahuja

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SUMMARY

- Computer Science undergraduate skilled in Python, C/C++, Java, and JavaScript with full-stack experience. Built ML models, automation tools, and performance-optimized systems with focus on clean code and problem solving.

EDUCATION

- **Graphic Era University** *Dehradun*
  B.Tech in Computer Science, GPA: 7.52/10 *Aug 2022 – Jun 2026*
- **St. Mary's Sr. Sec. School (CBSE)** *Haridwar*
  Class 12 – 70% *2022*

TECHNICAL SKILLS

- **Languages:** Python, C, C++, Java, JavaScript, HTML, CSS, SQL

- **Frameworks/Tools:** React.js, Node.js, Express, MongoDB, Git, Docker

- **ML:** TensorFlow, Keras, scikit-learn, Pandas, NumPy

PROJECTS

- **Health Appointment System** — *MERN Stack (MongoDB, Express, React, Node.js)* [Live Demo]
  - Developed a full-stack web app where patients can book appointments and doctors can manage their schedules.
  - Features include login/signup, appointment booking, doctor dashboard, and MongoDB for data persistence.

- **Movie Recommendation System** — *Python, scikit-learn, Flask* [GitHub]
  - Built a content-based recommender using CountVectorizer + cosine similarity to suggest movies by title.

- **Digit Recognizer** — *Python, TensorFlow, Keras* [GitHub]
  - Trained MNIST classifier (~98% test accuracy) and served predictions via a lightweight Flask UI.

- **Parallel Encryption and Decryption** — *C, Multithreading, Multiprocessing* [GitHub]
  - Optimized throughput using `fork()` + `pthreads` with shared memory and workload balancing on multi-core CPUs.

- **Automatic C-Code Generator** — *Lex, Yacc, C* [GitHub]
  - Converted pseudocode to optimized C with tokenization/parsing and basic error detection; optional GCC compile step.

- **Tourism Website** — *HTML, CSS, JavaScript* [GitHub]
  - Interactive site for first-time visitors with locations, religious places, and basic map/search features.

CERTIFICATIONS

- **AWS Academy Cloud Foundations** — Core AWS services (EC2, S3, IAM, RDS) and cloud concepts

- **Meta Front-End Developer (Coursera)** — HTML/CSS/JS and React fundamentals

- **freeCodeCamp: Responsive Web Design** — Flexbox, Grid, and responsive layouts

ACHIEVEMENTS

- Solved 200+ problems on LeetCode/GeeksforGeeks; college coding contest Top 10

- Participated in Smart India Hackathon 2024 (college level)

- Completed AWS Academy Cloud Foundations certification