SAKSHAM GUPTA

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PROFESSIONAL SUMMARY

Final-year Computer Science Engineering student with a strong foundation in **Data Structures and Algorithms (C++)** and hands-on experience building **Python-based data tools, AI-powered automation systems, and low-level utilities**. Skilled in translating real-world problems into efficient, scalable solutions using **Python, C++, and REST APIs**. Interested in backend systems, data-driven applications, and practical software engineering.

PROJECTS

Personal Finance Dashboard (GitHub)   *Python, Pandas, CSV, SQLite, Matplotlib*

- Built a lightweight dashboard to track **income, expenses, investments, and net worth** in a unified system.
- Implemented structured financial data logging and automated calculations for total assets and liabilities.
- Generated **visual spending breakdowns and trend charts** using Matplotlib to support better financial decisions.
- Strengthened skills in **data cleaning and analysis** using real-world financial datasets.

AI Job Application Assistant (GitHub)   *Python, AI APIs, Automation, JSON/YAML*

- Developed an automation tool to generate **role-specific resumes and cover letters** from job descriptions.
- Integrated **AI/LLM APIs** to highlight relevant skills while maintaining consistent formatting.
- Implemented application tracking to log roles, companies, and timelines in a structured format.
- Improved understanding of **API integration, automation workflows**, and developer productivity tools.

File Compression Tool (Huffman Coding) (GitHub)   *C++, STL, Data Structures*

- Built a **command-line file compression utility** using Huffman coding for lossless compression.
- Implemented frequency analysis, **priority queues**, and tree-based encoding to generate optimal prefix codes.
- Designed bit-level encoding and decoding logic for efficient binary file processing.
- Strengthened understanding of **trees, heaps, memory efficiency**, and low-level system design.

SKILLS

Core: Data Structures & Algorithms, Problem Solving, Databases, Computer Networks, Operating Systems
Languages: C/C++, Python, Java, SQL, JavaScript
Technologies: Git/GitHub, Docker, REST APIs, Pandas, Matplotlib

ACHIEVEMENTS

- Solved **300+ Data Structures and Algorithms problems** across online coding platforms, improving algorithmic thinking and coding efficiency.
- Designed and delivered multiple **end-to-end academic and personal software projects**, applying core CS concepts to real-world systems.

EDUCATION

Chitkara University – BE in Computer Science Engineering   **Rajpura, Punjab** — 2022 – 2026

Indus Global School   **Chandigarh** — Senior Secondary (2021 – 2022)

Indus Global School   **Chandigarh** — Secondary (2019 – 2020)