

# AAYUSH SAINI

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## Education

<b>Graphic Era Hill University, Dehradun</b> <i>B.Tech in Computer Science &amp; Engineering</i>	<b>2022 - Present</b>
<b>A.B.N. Sr. Sec. School, Roorkee</b> <i>Senior Secondary(XII), CBSE BOARD</i>	<b>2022</b>
<b>A.B.N. Sr. Sec. School, Roorkee</b> <i>Secondary(X), CBSE BOARD</i>	<b>2020</b>

## Projects

<b>LinkedIn Post Generator</b>	<a href="#">Source Code</a>
<ul style="list-style-type: none"><li>Designed an AI-powered content generator using NLP that produced over 250 LinkedIn-ready posts with industry-specific tones.</li><li>Engineered a Streamlit-based user interface featuring drag-and-drop components and real-time feedback, reducing manual writing time by 60%, with live editing and preview via Streamlit.</li><li>Tech Stack: Python, NLP, Streamlit, Git</li></ul>	
<b>Mini Compiler</b>	<a href="#">Source Code</a>
<ul style="list-style-type: none"><li>Developed a custom compiler for a simplified C-like language using Flex and Bison, supporting variables, expressions, and control structures, while reducing code complexity by 40% through optimized symbol table management and intermediate code generation.</li><li>Generated Three Address Code (TAC), managed symbol tables, and implemented intermediate code logic for parsing and execution.</li><li>Tech Stack: C, Flex, Bison.</li></ul>	
<b>File Compression System</b>	<a href="#">Source Code</a>
<ul style="list-style-type: none"><li>Implemented Huffman encoding to achieve up to 70% reduction in file size, optimizing storage efficiency.</li><li>Enabled users to upload, compress, and download files up to 2MB, with results in under 2 seconds.</li><li>Tech Stack: HTML, CSS, JavaScript.</li></ul>	
<b>Food Management System</b>	<a href="#">Source Code</a>
<ul style="list-style-type: none"><li>Developed a full-stack platform designed for real-time comparison of 15+ mess services based on live pricing, meal availability, and reviews, tailored for a university environment.</li><li>Integrated optimized search and recommendation features using OS-level algorithms like FCFS, SJF, Round Robin, and Banker's Algorithm to simulate smart service queueing and improve request prioritization by up to <b>40%</b>.</li><li>Engineered using HTML, CSS, JavaScript, Node.js, Express.js, and MongoDB, with real-time updates via Socket.io and secure authentication through JWT and bcryptjs.</li></ul>	

## Technical Skills

**Languages:** C, Python, C++, Java, JavaScript, PHP  
**Frontend:** React, TailwindCSS, HTML5, CSS3, Bootstrap,  
**Clouds & Databases:** MySQL, MongoDB, Oracle23c ,AWS  
**Backend :** Node.js, Express.js, Flask  
**Tools and DevOps:** Git, VS Code, GitHub, Docker, Vercel, Railway, PyCharm  
**Data Science & Machine Learning:** NumPy, Streamlit, PIL, Matplotlib, Pandas

## Certifications

- SQL by Udemy.
- Cisco Networking Basics.
- Python Basics by HackerRank.
- AWS Cloud Quest.

## Algorithmic Competitions/ Achievements

- Completed AWS cloud architecture certifications, gaining expertise in scalable application deployment.
- Built functional prototypes in multiple national hackathons, demonstrating creativity and efficiency under pressure.
- Participated in the Google Cloud Facilitator Program, gaining hands-on experience in cloud computing, virtual machines, Kubernetes, and cloud-native tools on the Google Cloud Platform (GCP).