# Sarthak Aswal


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- Portfolio- https://sarthak-aswal.github.io/Portfolio-Website/
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## Skills and interests

| | |
|---|---|
| **Programming Languages** | **C,** C++, Java |
| **Frontend Technologies** | HTML, JavaScript, CSS |
| **Version Control** | **Git** |
| **Database** | SQL |

## Education

**Graphic Era Hill University, Dehradun** 2021 - 2025
Bachelors of Technology in Computer Science and Engineering
Cgpa – 7.5

**The Indian Academy, Dehradun** 2020 - 2021
Higher Secondary Education (CBSE)
Percantage - 90

## Projects

### YouTube Comment Sentiment Analysis

• Developed an AI-driven sentiment analysis tool in Python to fetch YouTube comments using the YouTube API, analyzing over 5000 comments across 100 videos.
• Categorized sentiments into positive, neutral, and negative categories using Natural Language Processing (NLP) techniques, achieving 85% accuracy in sentiment classification.
• Automated the data-fetching and analysis process and providing actionable insights into audience sentiment trends.

### WebGenie-Ai powered webdev environment

• Built a modern web application using Next.js, Tailwind CSS, and Shadcn UI that allows users to generate responsive websites from natural language prompts.

•Integrated the Gemini API to convert user input into structured HTML/CSS/JS code, enabling intelligent and dynamic web template generation.

•Utilized Supabase for user data handling and project storage, ensuring real-time updates and seamless backend integration.

### Multithreaded proxy server with LRU cache in C++

• Built a high-performance proxy server in C++ using socket programming and multithreading to handle multiple client requests concurrently.
• Designed and implemented an LRU (Least Recently Used) Cache using advanced data structures like hashmaps and doubly linked lists, optimizing cache lookups and updates with O(1) time complexity.
• Integrated the cache into the proxy server to reduce latency by 30% for frequently accessed data, improving overall response time.

## Achievements and Leadership role

### Amazon ML Hackathon (Team Leader) | Sept 2024

• Led a team in Amazon's ML Hackathon, developing a Python-based solution using Optical Character Recognition (OCR) and Natural Language Processing (NLP) techniques to extract parameters from complex input data.

• Achieved 70% accuracy in parameter extraction, securing a position in the Top 20

• Facilitated team collaboration, integrating diverse ideas and contributions to develop a cohesive solution while focusing on real-world applicability and scalability.

## Hobbies and interests

- Playing chess
- Traveling