SAGAR SINGH KUSHWAHA

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Summary

Computer Science undergraduate with 3+ years of hands-on experience in C++, Python, and web development. Built AI-based mini projects and contributed during internship as a web developer. Currently working on "SynchCast" – a Bluetooth audio broadcasting system.

Technical Skills

Programming: C++, Python, JavaScript, HTML/CSS, SQL

Frameworks & Libraries: Flask, NumPy, Pandas, scikit-learn , PyQt5

Developer Tools: Git, VS Code, PyCharm, Google Colab

Database/Cloud: MySQL, AWS (Basics), MongoDB , Firebase

Soft Skills: Communication, Leadership, Team Collaboration

Experience

SampurnaBharat　　[Link]　**Feb 2025 – Jun 2025**
Web Developer Intern　　*Jalgoan, Maharashtra*
- Implemented 15+ responsive UI components using HTML, CSS, and JavaScript in Agile environment, completing 3 sprint cycles.
- Enhanced e-commerce website by developing 8 new features, resulting in 25% improvement in user experience metrics.
- Optimized website performance, reducing page load times by 20% (from 4.2s to 3.4s) and boosting site speed.
- Collaborated with 5-member team to deliver 12 features over 4 months, increasing site traffic by 30%.

Projects

SynchCast – Multi-Device Audio Broadcasting System | *Python, C++, circmd, virtual audio driver*　[Link]
- Developing a Windows application to stream system audio to multiple Bluetooth, wired, or USB output devices simultaneously.
- Built GUI in Python (PyQt5) for real-time audio routing, dynamic device selection, and per-device volume control.
- Integrated virtual audio driver for seamless routing, reducing manual setup to a 3-click configuration.

Intelligent Mental Health Support Platform | *Python, Google Colab*　[Link]
- Created AI platform with 92% accuracy in facial emotion recognition, serving personalized interventions to 500+ test users.
- Analyzed 15+ research papers and implemented 3 clinical frameworks to ensure 100% ethical compliance standards.

AI Drawer – Integrated AI Platform | *scikit-learn, Flask, pandas, API*　[Link]
- Integrated 4 AI APIs (Gemini, Perplexity, DALL-E ,cloude) handling 1000+ daily queries with 40% faster responsetime.
- Processed 6,000+ training entries using pandas and scikit-learn, improving model accuracy from 68% to 92%.
- Designed intuitive Flask-based UI serving 200+ users, achieving 4.5/5 user satisfaction score (20% increase).

Computer Science Fundamentals

Data Structures: Arrays, Linked Lists, Trees, Graphs, Stacks, Queues

Algorithms: Sorting, Searching, Dynamic Programming, Greedy, Recursion

Core Concepts: Operating Systems, Computer Networks, DBMS, OOP, System Design

Leadership / Extracurricular

Stock Market Analyst, Fintech Club　　**Jul 2023 – Nov 2025**
Team Lead　　*VIT Bhopal University*
- Analyzed 50+ stock portfolios and delivered weekly investment insights to 500+ club members.
- Conducted technical analysis on 50+ stocks monthly, achieving 70% accuracy in trend predictions.

PR Team Member, E-Cell VIT Bhopal　　**Jul 2023 – Nov 2023**
Core member　　*VIT Bhopal University*
- Managed PR initiatives across social media platforms, increasing follower engagement by 45%.
- Organized 2 networking events with 200+ attendees, boosting event participation by 60%.

Education

VIT Bhopal University　　**Oct 2022 – Oct 2026**
Bachelor of Science in Computer Science　　*CGPA: 8.38 / 10*