

# SAGAR SINGH KUSHWAHA

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## Education

### VIT Bhopal University

Bachelor of Science in Computer Science

Oct 2022 – Oct 2026

CGPA: 8.38 / 10

## 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:** VS Code, PyCharm, Version Control (Git), CI/CD Pipelines (GitHub Actions), Unit Testing (PyTest)

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

**Soft Skills:** Communication, Leadership, Team Collaboration

## Experience

### SampurnaBharat

[\[Link\]](#)

Feb 2025 – April 2025

Web Developer Intern

Jalgaon, Maharashtra

- Engineered 15+ responsive UI components (HTML, CSS, JavaScript) in an Agile setting, delivering all modules 20% ahead of sprint deadlines.
- Revamped e-commerce functionality with 8 high-impact features, boosting user satisfaction metrics by 25%
- Coordinated cross-functional efforts in a 5-member team, launching 12 features in 4 months and driving a 30% surge in site traffic.

## Projects

### SynchCast – Multi-Device Audio Broadcasting System | Python, C++, circmd, virtual audio driver

[\[Link\]](#)

- Designed a multithreaded audio processing pipeline that supports streaming audio to Bluetooth, wired, and USB connected devices concurrently, achieving a consistent 99.9% uptime during audio playback.
- Developed a Python (PyQt5) GUI application for real-time audio routing and multi-device volume management, decreasing user setup time by 70% and improving audio engineer workflow.
- 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, Cloud) handling 100+ daily queries with 40% faster response time.
- 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

- Directed PR campaigns across multi-platform social channels, elevating follower engagement by 45%.
- Spearheaded 2 large-scale networking events for 200+ attendees, driving a 60% rise in engagement and expanding the club's network.