SAGAR SINGH KUSHWAHA

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Education

VIT Bhopal University	**Oct 2022 – Aug 2026 (Expected)**
Bachelor of Science in Computer Science	CGPA: 8.58 / 10

Technical Skills

C++, Python, JavaScript, HTML/CSS, SQL, Flask, NumPy, Pandas, scikit-learn, PyQt5, Git, MongoDB, AWS (Basics); strong communication and teamwork, Trading Pattern Recognition, Technical & Fundamental Analysis, Capital Markets Analysis.

Projects

SynchCast – Simultaneous Audio Streaming to Multiple Bluetooth Devices
Python, C++, circmd, virtual audio driver   **May 2025 – Jun 2025** [Link]
- Engineered a multithreaded audio pipeline enabling simultaneous streaming to Bluetooth, wired, and USB devices with 99.9% uptime during playback.
- Developed a user-friendly Python (PyQt5) GUI for real-time audio routing and multi-device volume control, cutting user setup time by 70%.
- Automated device discovery and output selection with a custom virtual audio driver, streamlining configuration to just 3 clicks and boosting scalability by 50%.

Intelligent Mental Health Support Platform
Python, Google Colab   **Sep 2024 – May 2025** [Link]
- Developed an AI-powered mental health chatbot that delivers personalized interventions to 50+ test users.
- Fine-tuned a large language model (LLM) with curated psychology and mental health datasets, improving response accuracy and delivering more personalized user support.
- Synthesized insights from 10+ research papers and designed 3 clinical frameworks in collaboration with mental health professionals, ensuring 100% ethical compliance and boosting user adoption.

AI Drawer – Integrated AI Platform
scikit-learn, Flask, pandas, API   **Aug 2023 – Nov 2024** [Link]
- Pioneered AI Drawer, a unified orchestration platform integrating Gemini, Perplexity, DALL-E, and Claude to automate intelligent query routing via a custom ML-based domain classifier.
- Trained an ML-based domain classifier trained on 6,000+ labeled samples—boosted detection accuracy from 60% to 65% and eliminated manual model selection.
- Architected a robust API orchestration system with robust key management, automated error handling, and a user-friendly Flask interface for seamless multi-AI interactions.

Experience

SampurnaBharat   **Feb 2025 – Apr 2025** [Link]
Front-End Developer Intern   Jalgaon, Maharashtra
- Enhanced the website's UI/UX by realigning product sections and implementing modern, responsive layouts for a cleaner and more intuitive design.
- Revamped product cards with interactive effects and optimized styling, resulting in improved user engagement and a 20% increase in session duration.
- Developed and optimized reusable front-end components using HTML, CSS, and JavaScript, ensuring cross-browser compatibility and improved site performance.

Leadership / Extracurricular

Stock Market Analyst, Fintech Club   **Jul 2023 – Jun 2025**
Team Lead   VIT Bhopal University
- Represented the university in the **National Financial Literacy Quiz – Finale Round**; analyzed 50+ stock portfolios monthly and delivered actionable insights to 500+ members with 60% trend prediction accuracy.
- Mentored 15+ junior analysts and organized skill-building workshops, strengthening members' practical trading strategies and market awareness.

PR Team Member, E-Cell VIT Bhopal   **Jan 2024 – Jun 2025**
Core Member   VIT Bhopal University
- Directed multi-platform PR campaigns and secured sponsorships with student bodies, boosting follower engagement by 45% and event funding by 20%.
- Spearheaded 2 large-scale networking events for 200+ attendees, driving a 60% increase in participation and strengthening the club's industry connections.