SAGAR SINGH KUSHWAHA

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Education

Vellore Institute of Technology	**Jul 2026 (Expected)**
B.Tech in Computer Science & Engineering	CGPA: 8.57 / 10.0

Technical Skills

Languages: C++, Python, JavaScript, SQL, HTML/CSS
Libraries & Frameworks: scikit-learn, Pandas, NumPy, Flask, Django, PyQt5, LSTM, RAG, Algorithmic Trading
Cloud, Tools & Networking: AWS (EC2, VPC, S3), Docker, CI/CD (GitHub Actions), Git, MongoDB, n8n, TCP/IP

Experience

SampurnaBharat	**Feb 2025 – Apr 2025**
Full Stack Developer Intern	Jalgaon, Maharashtra

– Developed and maintained scalable RESTful APIs using Python (Flask), implementing core business logic, request validation, and error handling to support production-grade backend services.
– Designed and optimized MongoDB schemas, indexes, and queries, improving data reliability and API response performance.
– Enhanced backend performance and stability by refactoring server-side code, optimizing database interactions, and reducing redundant API calls, achieving a 25% improvement in overall system response time.

Projects

AI Drawer – Integrated AI Platform
scikit-learn, Flask, pandas, LLM APIs (ChatGPT, Gemini, Anthropic), REST APIs [Link]

– Built a scalable AI orchestration platform using Django and Flask, providing a web-based UI where users interact with an AI chatbot through a prompt-driven interface.
– Implemented a Python backend pipeline that classifies user prompts using an ML-based domain classifier (6,000+ labeled samples) and dynamically routes requests to the most suitable LLM API.
– Designed and exposed RESTful APIs to manage prompt processing, AI response aggregation, and real-time delivery to the UI, ensuring modularity, maintainability, and low-latency responses.

AI-Based Financial Results Sentiment Trading Bot
Python, n8n, Flask, Google Cloud, AWS (EC2), LLM, NSE/BSE API [Link]

– Developed an autonomous trading system that detects companies releasing quarterly results, aggregates broker estimates, and monitors live corporate filings from NSE/BSE APIs.
– Built an Artificial Intelligence pipeline that downloads and parses financial result PDFs using a fine-tuned open-source LLM to extract key metrics such as QoQ/YoY profit, revenue, and EBITDA.
– Compared extracted data with market estimates to generate sentiment (Positive/Negative/Neutral), then executed automated trades via broker APIs with real-time SL and target monitoring.

SynchCast – Multi-Device Audio Sharing System
Python, PyQt5, NirCmd, Virtual Audio Cable [Link]

– Engineered a multithreaded Python application enabling simultaneous audio transmission to 3–4 Bluetooth and wired devices with less than 100 ms latency and synchronized playback.
– Designed an intuitive PyQt5 GUI that reduced a 5–10 minute manual Audio Repeater setup to just 3 clicks, simplifying configuration and improving usability.
– Integrated NirCmd to automatically detect newly connected audio devices and switch the default output to a Virtual Audio Cable, enabling real-time multi-device audio broadcasting with 99% playback stability.

Leadership / Achievements

Stock Market Analyst, Fintech Club	**Jul 2023 – Jun 2025**
Team Lead	VIT

– 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	**Jan 2024 – Jun 2025**
Core Member	VIT

– 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.

Certifications

Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate [Link]
Oracle Cloud Infrastructure 2025 Certified Generative AI Professional [Link]