

SAGAR SINGH KUSHWAHA

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Portfolio

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github.com/sagar2525

Education

Vellore Institute of Technology

B.Tech in Computer Science & Engineering

Jul 2026 (Expected)

CGPA: 8.57 / 10.0

Technical Skills

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

Libraries & Frameworks: scikit-learn, Pandas, NumPy, Flask, PyQt5, LSTM, RAG, Algorithmic Trading

Cloud, Tools & Networking: AWS (EC2, VPC, S3), Docker, CI/CD (GitHub Actions), Git, n8n, TCP/IP

Projects

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.

AI Drawer – Integrated AI Platform

scikit-learn, Flask, pandas, API

[Link]

- Developed a unified AI platform that integrates Gemini, Perplexity, DALL·E, and Claude into a single prompt-driven interface for automated task routing and response generation.
- Trained an ML-based domain classifier on 6,000+ labeled records, achieving 65% accuracy across four domains—research, text generation, image creation, and math solving.
- Constructed a Flask-based backend where each user prompt is first categorized using a logistic regression model, then routed to the appropriate AI API via subprocess execution, and finally aggregated for real-time display on the web interface.

Experience

SampurnaBharat

Full Stack Developer Intern

Feb 2025 – Apr 2025

Jalgaon, Maharashtra

- Designed and maintained database schemas and RESTful APIs with MongoDB and Node.js, enhancing data efficiency and reliability.
- Collaborated on developing user-facing components such as the profile, cart, and payment interfaces, ensuring responsive layouts and consistent design across devices.
- Optimized overall frontend performance by refactoring code, compressing assets, and improving load speed by 25%.

Leadership / Achievements

Stock Market Analyst, Fintech Club

Jul 2023 – Jun 2025

VIT

Team Lead

- 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

VIT

Core Member

- 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]