SAMEER KUMAR

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Education

Bachelor of Technology (B.Tech) in Computer Science and Engineering	Jul 2022 – Jul 2026
Vellore Institute of Technology Bhopal, *Madhya Pradesh*	*CGPA: 8.67*
Higher Secondary Certificate (12th Grade)	Apr 2022
Ananth Pre-University College, *Bangalore, Karnataka*	*KSEEB — 91.67%*
Secondary School Certificate (10th Grade)	Oct 2020
Ananth International School, *Bangalore , Karnataka*	*ICSE — 92.8%*

Work Experience

Machine Learning Intern (Remote)   Nov 2024 – Jan 2025

iNeuron Intelligence Pvt Ltd, *Bangalore* [Certificate]

- Developed a plagiarism detection prototype using TF-IDF and cosine similarity, enabling educators to check 100+ assignments efficiently.
- Gained hands-on experience in model training, evaluation, and deployment workflows.
- Collaborated with a team to integrate the model into a web-based interface for real-time assignment checking.

Skills

Programming: Java, C++, Python, SQL, JavaScript, HTML, CSS
Frameworks: Spring Boot, React, Scikit-learn, Pandas
Tools & Platforms: MySQL, Firebase, Git, GitHub, AWS, Docker

Projects

Beer Manufacturing Analytics Platform — *Python, Streamlit, Scikit-learn, Pandas* [GitHub]   Aug 2025

- Built ML-powered Streamlit platform processing 10K+ beer batches with 95% anomaly and quality detection accuracy.
- Enhanced pipeline with caching and parallel processing, reducing load times by 60%.
- Developed interactive Plotly dashboards for real-time monitoring of 8+ production parameters.

ingreSnap - Ingredient Analysis Tool — *React, TypeScript, Tailwind CSS, Tesseract.js* [GitHub]   Nov 2024

- Pioneered OCR-powered ingredient analysis tool for real-time allergen detection and nutritional insights.
- Collaborated with a 5-member team to deliver a production-ready web app under faculty supervision.
- Optimized advanced text processing algorithms achieving 85% precision in ingredient recognition from captured images.

VITsta360 - Virtual Campus Tour — *HTML, CSS, JavaScript, Three.js, Blender* [GitHub]   Jan 2024

- Built interactive virtual tour with 360° panoramas of 10+ campus locations for 5000+ students.
- Streamlined rendering performance achieving consistent 60fps frame rate and seamless cross-platform compatibility.
- Crafted responsive interface with 20+ interactive hotspots using Three.js and Blender for immersive 3D visualization.

V-Slot - Academic Scheduling System — *HTML, CSS, JavaScript, Firebase* [GitHub]   Jan 2023

- Designed Vslot, a timetable platform using Firebase, supporting 14K+ reads and 500+ writes weekly.
- Implemented user authentication, real-time data handling, privacy controls, Request and Active users information.
- Optimized database queries and caching, achieving 23:1 read-to-write ratio (14K reads, 593 writes weekly) for enhanced performance.

Certifications

Industry: Operations Job Simulation (Goldman Sachs), AWS Academy Cloud Architecting, DevOps Fundamentals (IBM)
Technical: Computer Networking Fundamentals (Google)

Achievements

- **Project Leadership:** Led 5-member development team for ingreSnap and other academic projects, achieving top project scores through on-time delivery and effective coordination.
- **Competitive Programming:** Competed in 5+ hackathons including Adobe, Walmart, Smart India Hackathon, and Honeywell Campus Connect.
- **Technical Leadership:** Event Management Coordinator at Blockchain Club, VIT Bhopal; managed operations for 200+ participants.
- **Business Development:** Led strategic planning for FAVAPAY with market analysis and investor pitch deck.
- **Sports Leadership:** Captained university volleyball team to tournament victory; managed training for 10+ members.

Additional Info

Languages: English (Fluent), Hindi (Native), Kannada (Conversational)
Interests: Fitness training, Volleyball, Chess, Sketching