SINCHANA S NAIK

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Summary

Final year CSE student skilled in Python, C, SQL, React, and AI/ML. Experienced in projects involving brain tumor detection using Swin Transformer, blockchain based voting systems, and embedded automation. Strong in machine learning, data handling, and full stack development with hands on experience in Hugging Face Transformers, microcontrollers, and smart contracts.

Education

P A College Of Engineering Mangalore 2022 – 2026
Bachelor of Engineering in Computer Science And Engineering CGPA- 8.8
• Relevant Coursework: DSA, Operating Systems, Computer Networks, DBMS, AI and ML

P A College Of Engineering Mangalore 2020 - 2022
Pre University Course (PCMB)

Projects

AI-Based Brain Tumor Detection & Classification
- Designed a deep learning model using Swin Transformer for accurate tumor detection from MRI scans with 93% accuracy.
- Implemented preprocessing, feature extraction, and classification workflows.
- Added Grad-CAM explainability to highlight tumor regions and improve clinical trust.

Blockchain-Based Voting System
- Developed a secure online voting platform using Ethereum and smart contracts.
- Ensured transparency, immutability, and voter anonymity through blockchain architecture.
- Designed a reliable user authentication flow to support safe and seamless voting.

Automatic Waste Segregation System
- Built an embedded system using Arduino and sensors to detect wet and dry waste.
- Automated waste classification to improve speed and accuracy in segregation.
- Selected as a finalist at the ACCS Design Challenge 2024 for innovation and effectiveness.

Technical Skills

Languages and Frameworks: Python, C, SQL, React, HTML, CSS
Tools and AI/ML Technologies: MySQL, GitHub, VS Code, Arduino IDE, Machine Learning, Hugging Face Transformer

Certifications and Achievements

- Finalist – ACCS Design Challenge 2024, IIIT Bangalore (Smart Waste Segregation System).
- CS50x (Computer Science) – Harvard University (edX).
- Big Data 101 and Hadoop 101 – IBM Cognitive Class.
- Python, C Programming, and Data Visualization certifications – Infosys Springboard.
- Networking Basics certification – Cisco Networking Academy.
- Data Structures in C – Great Learning Academy.
- Participated in Hack Summit 2025, developed an AI-Driven Scholarship System (24 hour hackathon).
- Participated in GirlGeekHack'23 Hackathon, IEEE Computer Society & NITK Surathkal.
- Participated in ICRAI 2024 – International Conference on Responsible AI, Mangalore University.
- Participated in Flutter Forward Workshop – Google Developer Student Clubs (GDSC).

Paper Presented

"Optimized Deep Learning Model for Multi-Class Student Performance Analysis"
Co-Author & Presenter, ERCICAM 2025 – 2nd International Conference
Presented a research paper focusing on advanced machine learning techniques for analyzing and predicting student performance using optimized deep learning architectures.