Akshata Halavagila

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Professional Summary

Passionate Software Engineer with strong foundations in DSA, clean coding, and scalable system design, skilled in Python, Java, and distributed systems, and driven to deliver innovative, high-performance solutions in dynamic teams.

Education

KLE Institute of Technology, Hubballi   **2022 − 2026**
B.Tech in Computer Science, Visvesvaraya Technological University; CPI: 8.64   *Hubballi, Karnataka*

Experience

PurpleNow Technologies Pvt. Ltd.   **Jan 2025 − Jun 2025**
Full Stack Developer Intern   *Hyderabad, India*
— Engineered a CNN-based ECG classification model with 92% validation accuracy using TensorFlow, Keras, and OpenCV.
— Streamlined preprocessing and deployment pipelines, cutting model training and release times by 20%.
— Integrated data visualization into the frontend dashboard, enabling medical professionals to access real-time insights.

VisionOne7 ConnectXpert LLP   **May 2025 − Jun 2025**
GenAI Developer Intern   *Bagalkot, India*
— Built a GenAI-powered voice-enabled cooking assistant, improving query recognition accuracy by 35%.
— Developed and deployed APIs for voice synthesis and AI responses, reducing latency by 20%.

Projects

Cook Gallery | *Python, Flask, MySQL*   **Jun 2025**
— Architected and deployed the backend of a recipe-sharing platform with real-time uploads and advanced search.
— Implemented secure RESTful APIs for authentication, media handling, and recipe categorization, reducing response time by 25%.

Brain Tumor Detection using Vision Transformers | *PyTorch, OpenCV, NumPy*   **Mar 2025 − Present**
— Optimized MRI classification pipeline with Vision Transformers, lowering inference time by 18% while maintaining accuracy.

Drug Recommendation System | *Python, Scikit-learn, Pandas*   **Nov 2024**
— Designed ML-based drug recommendation engine achieving 85% F1-score, enhancing personalized patient care.

Blockchain-based Academic Credential Verification | *Ethereum, Solidity, IPFS*   **Jan 2025**
— Implemented blockchain-based credential verification, reducing manual validation workload by 50%.

Farmer Shopping Cart | *React, Node.js, MongoDB*   **Mar 2025**
— Developed an e-commerce platform for farmers to sell products directly to consumers.
— Integrated secure payment gateway and inventory management features, enabling smooth transactions.
— Enhanced user experience by adding categorization, search, and cart functionality.

Technical Skills

Languages: Python, JavaScript, Java, C, HTML, CSS, jQuery
Frameworks / Tools: React, Node.js, Express.js, Flask, Git, Docker, MongoDB, OpenCV, TensorFlow, PyTorch
Technologies: Firebase, Solidity, Ethereum, IPFS
Platforms / IDEs: Linux, Ubuntu, Windows, VSCode, Code::Blocks, Jupyter, Eclipse

Leadership & Extracurricular

OSCode Community   **2024 − Present**
Managing Director
— Expanded the open-source community by 200% through mentorship programs and live coding sessions.
— Hosted 10+ technical workshops and guest lectures, boosting member participation and skills.