

Shannen Saikia

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Professional Summary

Passionate about problem-solving and mathematics with a keen interest in AI/ML and Web3 technologies. Focused on building innovative solutions at the intersection of machine learning and decentralized systems, from computer vision applications to blockchain-based platforms. Driven by the potential of emerging technologies to solve real-world challenges.

Education

Vellore Institute of Technology <i>B.Tech in Computer Science Engineering, Specialization in Blockchain Technology</i>	2022 – 2026 CGPA: 8.34
New Bombay City School, Navi Mumbai <i>CBSE Grade 12</i>	2022 Score: 92.6%

Technical Skills

Languages: C, C++, Java, Python, JavaScript, TypeScript, Rust, Solidity, HTML/CSS, SQL
Technologies: Docker, AWS, Git/GitHub, Firebase, MongoDB, PostgreSQL, MetaMask, Hardhat, Ethers.js
Frameworks: React.js, Next.js, Express.js, Flask, FastAPI, TailwindCSS, Node.js
Machine Learning: TensorFlow, PyTorch, Scikit-learn, OpenCV, Pandas, NumPy, Computer Vision

Experience


Core Committee Member — RoboVITics Club, VIT <i>Machine Learning and Computer Vision Projects</i>	Vellore, India Aug 2023 – Feb 2024
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- Contributed to robotics projects with a focus on Machine Learning and computer vision.
- Built jump counters and pose estimators using OpenCV and Python.
- Gained hands-on experience in ML concepts: classification, detection, and time-series analysis.

Projects

Assistive Vision System 	Python, YOLOv8, Kotlin, ESP32, OpenCV
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- Developed AI navigation system combining YOLOv8 object detection (85% accuracy) with ESP32 haptic feedback hardware and Kotlin Android app for real-time obstacle detection and directional guidance.
- Optimized model for mobile inference; integrated camera processing, vibration patterns, and audio alerts for accessibility.

FinanceFlow – Personal Finance Analytics Engine 	Python, Scikit-learn, Tesseract, React, Flask
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- Built full-stack system using OCR (Tesseract) and ML models to parse financial documents, categorize transactions, detect anomalies, and provide budgeting insights.
- Developed interactive React dashboard for visualizing spending patterns and savings forecasts.

eGov Portal – Blockchain-Based Governance Platform 	React, TypeScript, Solidity, Hardhat, Ethers.js
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- Developed decentralized application with Solidity smart contracts for digital identity, certificate issuance, voting, and service requests; deployed on Ethereum using Hardhat with Ethers.js/MetaMask integration.
- Built responsive TypeScript/React frontend with TailwindCSS; achieved 93 passing test cases ensuring security and functionality.

Certifications

Oracle Cloud Infrastructure Generative AI Certified Professional 	2025
<i>Expertise in LLM deployment, prompt engineering, RAG systems, and OCI AI services</i>	