

# 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

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

## 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

<b>Core Committee Member — RoboVITics Club, VIT</b>	<i>Vellore, India</i>
<i>Machine Learning and Computer Vision Projects</i>	<i>Aug 2023 – Feb 2024</i>
<ul style="list-style-type: none"> <li>○ Contributed to robotics projects with a focus on Machine Learning and computer vision.</li> <li>○ Built jump counters and pose estimators using OpenCV and Python.</li> <li>○ Gained hands-on experience in ML concepts: classification, detection, and time-series analysis.</li> </ul>	

## Projects

<b>Assistive Vision System</b> ↗	<i>Python, YOLOv8, Kotlin, ESP32, OpenCV</i>
<ul style="list-style-type: none"> <li>○ 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.</li> <li>○ Optimized model for mobile inference; integrated camera processing, vibration patterns, and audio alerts for accessibility.</li> </ul>	
<b>FinanceFlow – Personal Finance Analytics Engine</b> ↗	
<ul style="list-style-type: none"> <li>○ Built full-stack system using OCR (Tesseract) and ML models to parse financial documents, categorize transactions, detect anomalies, and provide budgeting insights.</li> <li>○ Developed interactive React dashboard for visualizing spending patterns and savings forecasts.</li> </ul>	
<b>Bitcoin Mining Simulator</b> ↗	
<ul style="list-style-type: none"> <li>○ Implemented proof-of-work blockchain simulator in Rust with SHA-256 double hashing, merkle tree construction, and configurable difficulty targeting.</li> <li>○ Built transaction handling system with UTXO model, wallet balance tracking, and chain validation; achieved accurate mining simulation with nonce iteration and dynamic difficulty adjustment.</li> </ul>	
<b>eGov Portal – Blockchain-Based Governance Platform</b> ↗	
<ul style="list-style-type: none"> <li>○ 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.</li> <li>○ Built responsive TypeScript/React frontend with TailwindCSS; achieved 93 passing test cases ensuring security and functionality.</li> </ul>	

## Certifications

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