

Trisha Rami

Portfolio: trishhaaa24.github.io

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EDUCATION

- UIT, Karnavati University** Ahmedabad, India
Bachelor of Science (Hons.) - Computer Science; GPA: 8.44 Aug 2022 - Apr 2026
Specialization in Artificial Intelligence and Machine Learning

Courses: Operating Systems, Data Structures and Algorithms, Artificial Intelligence, Machine Learning, Neural Networking, Databases, LLM , Cryptography, Blockchain Security, Augmented Reality

EXPERIENCE

- Blockchain Research Intern** On-Site
Dhirubhai Ambani Institute of Information and Communication Technology (DA-IICT) May 2025 – Aug 2025
 - Research Focus:** Worked on game-theoretic modeling of miner behavior in fee-based queueing blockchains, analyzing incentive mechanisms and transaction validation strategies.
 - Technical Contribution:** Applied mathematical modeling and simulation to evaluate miner strategies under varying fee structures, contributing to blockchain scalability and security research.
 - Outcome:** Prepared findings for potential publication, providing insights into optimizing transactions with higher fees, inclusion and fairness in decentralized networks.

SKILLS SUMMARY

- Languages:** Python, JavaScript, Rust, MySQL, HTML/CSS, R, MATLAB, Solidity, React
- Frameworks:** Scikit, NLTK, Keras, TensorFlow, Keras, NodeJS, Web.js, Ethers.js, React.js, Typescript, OpenZeppelin
- Tools:** Hardhat, IPFS Storage, Remix IDE, MetaMask, GIT, MongoDB, MySQL, Chainlink
- Platforms:** Remix IDE, Web, Windows, Arduino, AWS, Ethereum, IPFS
- Soft Skills:** Leadership, Event Management, Writing, Public Speaking, Time Management, Problem Solving

PROJECTS

- Carbon Offset Tracker (Ethereum, Sepolia, Web3.js, Solidity, React)**: I developed a blockchain-based carbon tracking system on the Ethereum Sepolia testnet, featuring gas-optimized smart contracts and secure, transparent offset transactions. I also built a responsive React.js frontend integrated with Web3.js for seamless real-time blockchain interaction. (March '25)
- Token Faucet (Solidity, Polygon Sepolia)**: I designed and deployed a smart contract for controlled token distribution, ensuring users could not claim tokens multiple times by leveraging Solidity's require() function for security enforcement. This project enhanced my expertise in real-time smart contract deployment, testing, and seamless front end integration with blockchain. (March '25)
- NFT Minting with IPFS Metadata Storage (Blockchain, Smart Contracts)**: This decentralized application enables users to mint NFTs with metadata securely stored on IPFS, ensuring data integrity and transparency. Developed using Solidity and OpenZeppelin for best security practices, the contract maintains clear ownership and tamper-proof metadata. Tech: Solidity, IPFS, OpenZeppelin, JavaScript (April '25)

PUBLICATIONS

- Book: Blockchain Technology in the Energy Sector**: Co-authored a research chapter on blockchain's role in energy trading and smart grids for an upcoming IGI Global publication. (Yet to be published)
- Book: Blockchain and NFT Research Project** : I conducted research on NFT applications in DeFi, digital ownership, and IP protection for an upcoming IGI Global publication on emerging blockchain trends, guided by expert academic mentors. I analyzed smart contract security, token standards like ERC-721 and ERC-1155, and cross-chain interoperability to optimize NFT integration within blockchain ecosystems. (August '25)

HONORS AND AWARDS

- Runner's Up at Inter College Pitchathon (Team Lead) - Mar, 2025
- Participant at The Gated NFTS University Regional Hackathon - May, 2025

VOLUNTEER EXPERIENCE

- Community Executive at Turning Point Institute of Student Community** Ahmedabad, India
Conducted offline technical & soft-skills public speaking training, impacting over 1500 students. Apr 2024 - Jan 2025
- Social Ambassador at Pledge A Smile Foundation(NGO)** Ahmedabad, India
Led tech awareness workshops and crowdfunding campaigns, engaging 52,000+ followers. Jun 2024 - Jul 2024