

Arpit Satpute

Blockchain Developer

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Blockchain Engineer & Smart Contract Architect Specialized in designing and delivering secure, high-performance Solidity protocols for DeFi and decentralized marketplaces — spanning yield optimization, lending, NFT ecosystems, and on-chain trading venues.

TECHNICAL SKILLS

Smart Contracts: Solidity • Foundry • OpenZeppelin • Access Control

Token Standards: ERC-1155 • ERC-4626 • ERC-721 • EIP-712 • ERC20

Frontend Web3: Wagmi • Viem • TypeScript • React • React Native • Next.js • RainbowKit

Backend & Infra: Node.js • Spring Boot • PostgreSQL • MongoDB • Redis • Docker • ZKP • IPFS • Polygon(Layer 2)

PROJECT

VERIMINT | <https://verimint.vercel.app>

[Github](#) | July 2025

Decentralized e-commerce platform where brands mint NFT digital twins of physical products, enabling trust-less purchases, escrow security, and real-world redemption via on-chain verification.

- Built a production-grade **decentralized e-commerce platform** where brands mint **ERC1155 NFTs** as tamper-proof digital twins of real-world products, enabling **fully on-chain** purchasing and physical redemption.
- **Architected** battle-tested **Solidity smart contracts** (NFT + Escrow + Order Manager) with secure minting, trust-less payments, **conditional fund releases**, and automated redemption workflows.
- **Integrated IPFS** for immutable product provenance and **on-chain redemption tracking with dynamic NFT metadata evolution**.
- **Engineered** a high-performance **React + Wagmi/Viem dApp** live NFT state rendering, and a powerful merchant dashboard for inventory, sales, and redemption oversight.

INSIGHT-YIELD | <https://insight-yield.vercel.app>

[Github](#) | Oct 2025

Autonomous DeFi liquidity engine that harnesses off-chain predictive intelligence and on-chain cryptographic proofs to continuously redirect capital toward the highest-yielding opportunities.

- **Designed** a modular **ERC-4626 Vault system** on **Polygon** enabling automated yield strategies and composable integration with DeFi protocols.
- **Built** a **custom Python AI engine** performing real-time **risk scoring, APY prediction, and optimal allocation** generation models.
- **Implemented** an **EIP-712** verification flow ensuring all AI recommendations are authenticated and tamper-proof on-chain.

ACHIEVEMENTS

- **Technex Hackathon- 1st Runner-Up** (Jan 2025): Secured 1st Runner-Up for the LeafLink platform out of 600+ participants at St. Vincent Pallotti College of Engineering.
- **Enkryptia Hackathon- 2nd Runner-Up** (Oct 2024): Developed the mentorship platform, earning 2nd Runner-Up among 25+ teams at Government Polytechnic, Nagpur.

EDUCATION

B.Tech in Computer Science

2022–2026

J D College of Engineering and Management, Nagpur

CGPA : 9.57

SOFT SKILLS

- Critical Thinking • Collaboration • Adaptability • Communication • Problem Solving • Time Management