

EDUCATION

B.Tech in Computer Science Engineering, Symbiosis Institute of Technology, Pune 2023 — 2027 (Expected)

• Coursework: Operating Systems, Machine Learning, Data Structures, Web Development, Computer Networks, Computer Organization

PROJECTS

Self-Sovereign Identity (SSI) Management System 2025

- Developed a decentralized identity verification system implementing W3C DID (Decentralized Identifiers) and Verifiable Credential standards to provide secure, user-controlled digital identity management.
- Created multi-role workflows (Student, Issuer, Verifier) with passwordless authentication using cryptographic DIDs, improving security and reducing identity spoofing risks.
- Designed a Progressive Web App (PWA) with offline access, fast credential retrieval, and responsive UI to ensure accessibility across mobile and desktop users.
- Built backend services in Node.js/Express enabling credential issuance, revocation, integrity checks, and validation via signed JWT tokens and hashed state tracking.
- **Tech:** Node.js, Express.js, MongoDB Atlas, JavaScript, HTML/CSS, JWT, PWAs, REST APIs

Fraud Detection using Blockchain and Machine Learning 2024

- Built an ML-based fraud detection pipeline utilizing feature engineering, outlier analysis, and supervised classification models such as Logistic Regression, Random Forest, and SVM.
- Achieved improved fraud classification accuracy by optimizing hyperparameters and evaluating models using precision, recall, and F1-score.
- Integrated blockchain concepts to record hashed transaction metadata, ensuring tamper-proof audit logs and improving transparency in fraud investigation workflows.
- Implemented real-time anomaly detection with threshold-based triggers to proactively flag suspicious transactions.
- **Tech:** Python, TensorFlow, scikit-learn, Pandas, NumPy, Blockchain Concepts, Data Preprocessing

Pet Adoption Management System 2025

- Developed a complete Java-based desktop application to manage pet adoption data, including applicant records, pet profiles, and approval workflows for shelter administrators.
- Designed interactive UI screens using JavaFX with clean, modular navigation and alerts for application status updates.
- Implemented MVC architecture to separate business logic, presentation, and data handling, ensuring maintainability and scalability of the codebase.
- Added form validation, search filtering, and dynamic table updates for smooth user interaction.
- **Tech:** Java, JavaFX, OOP, MVC Architecture, GUI Development

SKILLS

Programming	C, C++, Python, Java, JavaScript, SQL
Web Development	HTML/CSS, Node.js, Express, React, REST APIs
AI / ML	TensorFlow, scikit-learn, ML Pipelines, Model Training
Tools	Git, VS Code, Figma, MySQL, MongoDB, Vercel
Domains	Blockchain, Computer Vision, Distributed Systems

CERTIFICATIONS

2025	Introduction to Generative AI — Google Cloud
2024	Machine Learning Specialization — Coursera