

# Atharva Nagane

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## EDUCATION

### Vellore Institute of Technology

B.Tech in Computer Science and Engineering; CGPA: 9.10/10

Bhopal, Madhya Pradesh

Sept 2023 – May 2027 (Expected)

## TECHNICAL SKILLS

**Programming Languages:** C++ (Proficient), Python, Javascript

**Web:** React, Node.js, Express, HTML5, CSS3, REST

**Databases/Infra:** MongoDB, SQL, Docker, Git, JWT, WebSockets

**ML/AI:** TensorFlow, Keras, scikit-learn, LangChain, OpenCV, NLTK

**Foundations:** Data Structures, Algorithms, OS, DBMS, OOP

## PROJECTS

### Legal Aid Platform

Jan 2025 – Present

*Context-Aware Retrieval and Blockchain-based Notarization*

*Python, LangChain, RAG, Blockchain*

- Engineered an AI and blockchain-based system to combat legal inefficiencies and corruption, streamlining processes in the Indian legal framework.
- Designed a Retrieval-Augmented Generation pipeline using LangChain text splitters, vector store, and OpenAI embeddings to answer IPC/Consumer Act queries with grounded citations.
- Implemented document fingerprinting (SHA-256) and on-chain timestamping for notarization to deter tampering and cut manual verification latency; exposed services via REST endpoints.

### Role-Based Content Platform

May 2025 – June 2025

*MERN Application*

*React, Node.js, Express, MongoDB, JWT, Vite, Axios*

- Delivered a full-stack platform with JWT auth, bcrypt hashing, and role-based dashboards; repositioned from e-commerce to multi-tenant content workflows.
- Shipped RESTful CRUD APIs handling ~2,000 daily requests; implemented pagination, search, and indexing to keep P95 latency low under spikes.
- Improved session security and reduced unauthorized access by ~98 percent with hardened auth and structured permissions; increased engagement by ~40 percent through UX refinements.

### DeepGuard: Audio-Video Deepfake Detection

Nov 2024 – Dec 2024

*Convolutional Neural Network*

*TensorFlow, Keras, OpenCV, Flask*

- Built an end-to-end app: spectrogram-based audio analysis and frame-level video artifact detection serving results via a Flask API.
- Achieved consistent detection across multiple generator families on curated test splits; tuned thresholds to reduce false positives by ~18 percent and support near real-time inference with batching.
- Containerized service and added health checks/logging for reliability; provided a minimal UI for uploads and results visualization to support non-technical reviewers.

## EXPERIENCE

### Full Stack Developer Intern

Remote

*Imarticus Learning*

May 2025 – Jun 2025

- Architected an internal LMS on MERN; implemented role-based access control and JWT, enabling progress review across 12+ sections with real-time dashboards over WebSockets.
- Designed REST APIs with Express + MongoDB (Mongoose), added rate limiting and input validation; sustained 10,000+ requests/min with 99 percent uptime under load tests using k6 and metrics-based monitoring.
- Deployed frontend/backend on Vercel serverless; configured caching and CI (GitHub Actions) with parallel tests to cut build-to-deploy by 25 percent and surface 15+ defects per sprint.

## CERTIFICATIONS ACTIVITIES

- Smart India Hackathon 2024: Cleared internal rounds; ranked top-50 team preparing for Nationals.
- Oracle AI Vector Search Certified Professional (OCP).
- Solved 150+ Data Structures Algorithms problems on LeetCode.

## EXTRACURRICULAR ACHIEVEMENTS

**Karate (WKF Affiliation):** Second Dan Black Belt; Sensei at USKA leading 50–70 students; organized belt gradings and structured training; National Gold and International Bronze medalist.