

# ADITYA TIWARI

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## SUMMARY

Computer Science student specializing in AI/ML and Full-Stack Development. Five-time hackathon winner, four published research papers with two Best Paper awards, contributor to two government projects. Expert in RAG, LLMs, Python, JavaScript, React, Next.js, FastAPI, Docker, and AWS.

## EDUCATION

**Bachelor of Technology in Computer Science and Information Technology** 2023 – 2027  
*Acropolis Institute of Technology and Research | CGPA: 7.08/10*  
**Higher Secondary Certificate (Class XII)** 2023  
*Sarafa Vidya Niketan | 83.4%*

## TECHNICAL SKILLS

**Languages:** Python, JavaScript, TypeScript, C++, SQL  
**AI/ML:** LLMs, Generative AI, RAG, NLP, Computer Vision, YOLOv8, OpenCV, Prompt Engineering, LangChain  
**Frontend:** React.js, Next.js, TypeScript, Three.js, HTML5, CSS3, Tailwind CSS  
**Backend:** Node.js, Express.js, FastAPI, Flask, RESTful APIs, PostgreSQL, MongoDB  
**Cloud/DevOps:** AWS, Docker, CI/CD, Git, GitHub  
**Tools:** Vapi SDK, Make.com, WebGIS, OCR, NER, IoT/BLE

## EXPERIENCE

**ASTITAVA & NyayaSetu - Forest Governance Platform** Dec 2025  
*Government Project - Ministry of Tribal Affairs | Full-Stack Developer & AI Engineer*

- Developed dual-platform ecosystem tribal members and officials for forest and tribal governance
- Built OCR and NER pipeline digitizing 1,000+ documents into FRA Atlas database, reducing processing time 85%
- Created Decision Support System with WebGIS integration and analytics dashboard for policy makers

**HealthSaarthi - Healthcare Ecosystem Platform** Sept 2025  
*Hackathon Winner | Lead Developer*

- Won first place developing platform connecting patients, doctors, and hospitals in unified ecosystem
- Integrated AI disease prediction using OpenCV and YOLOv8 with 82% accuracy for preventive healthcare
- Built multi-lingual voice bot with Vapi SDK and Agentic AI for emergency alerts in 3+ languages
- Engineered IoT health monitoring using BLE with React and Three.js visualization

## AWARDS & ACHIEVEMENTS

- Winner - AI Fusion Hackathon at Tech-o-tsav | Hackathon 2.0 at Ministry of Tribal Affairs, Eureka IEEE Contest
- First Runner-Up - Innovik 5.0 National Hackathon (Vikrant University) | Mediverse Hackathon (Medicaps)
- SIH 2025 Finalist - Presented to Education Minister, featured in Government of India press release
- Best Research Paper Awards - NSSAFE 2025 and IEEE Ignite 2025

## PUBLICATIONS

**K-dimensional Trees for Efficient Face Detection** May 2025  
*TechRxiv Preprint | Reduced face detection complexity 18% while maintaining 82% accuracy*  
**Astitava: AI-Driven WebGIS Platform for Transparent Land Governance** May 2025  
*International Journal of AI and Technology Research (IJAITR)*  
**Integrating Renewable Energy into ASIC-based Cryptocurrency Mining** Oct 2024  
*ICI3-2024 Conference | Proposed framework reducing energy consumption 35%*

## LEADERSHIP

**Vice Chair, IEEE Student Branch, AITR** | Leading workshops and innovation initiatives for 200+ members  
**Advisor, IEEE Student Branch, AITR** | Mentored 50+ students on software development and research projects  
**International Service Director, Rotaract Club** | Managing global projects