

# Aadhithiyan K S

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## PUBLICATIONS

Fake Product Identification Using Blockchain – **Presented at IIT Delhi, ICCCNT 2023.**

Web-Based Patient Health Management System with Doctor Recommendations and Medicine Alternatives Using Machine Learning – **Published at ICSSECC 2024.**

## EDUCATION

### PSG Institute of Technology and Applied Research

*Bachelor of Engineering, Computer Science, GPA: 8.62*

Coimbatore, India

2020 – 2024

## EXPERIENCE

### Introspect Labs

*Full Stack Intern*

**JUL 2025 – DEC 2025**

*Remote*

- Built and deployed FastAPI services for authentication, consent, family sharing, and GDPR-compliant account deletion with Zitadel, SendGrid/Twilio, and Stripe integrations.
- Designed and managed PostgreSQL, Neo4j, Qdrant, and Redis databases with schema migrations, caching, and automated backups on DigitalOcean Spaces.
- Delivered secure, scalable user flows with JWT sessions, OTP verification, and test coverage, collaborating with AI team for data integration.

### DoTE, Tamil Nadu Engineering Admissions (TNEA)

*Algorithm Development Intern*

**MAR 2023 – AUG 2023**

*Tamil Nadu, India*

- Designed optimized **seat allocation algorithms** for approximately **200,000 seats** in TNEA counseling
- Pioneered the transition from manual to automated seat allocation based on Categories and Reservation
- Assisted in implementing choice-based seat allocation algorithms leveraging candidate ranking for seat allocation during TNEA counseling

### Business Web Solution

*Web Developer Intern*

**OCT 2022 – DEC 2022**

*Remote*

- Designed client-side and server-side architecture with **HTML, CSS, JavaScript, React JS, Angular, Bootstrap**
- Built the front end of applications through appealing visual design.
- Designed, developed, and maintained platforms with databases or servers.

## PROJECTS

### Patient Health Management System with AI/ML

**JAN 2024 - MAY 2024**

*Technologies: Flask, MySQL, HTML, CSS, JavaScript*

- Developed a comprehensive web application for patient registration and appointment booking with AI-driven doctor recommendations.
- Implemented ML algorithms for alternative medicine suggestions and chatbot for symptom-disease prediction.
- Integrated a medical record management system with email notifications for appointment reminders.
- <https://github.com/Aadthiyans/HealthCare-Management-System>

### Identifying Counterfeit Products Using Blockchain

**JULY 2023 - DEC 2023**

*Technologies: Solidity, MongoDB, Flutter, HTML, CSS, JavaScript*

- Created a blockchain-based web and mobile application to verify product authenticity.
- Implemented QR code scanning to validate products using a decentralized ledger.
- Overcame challenges of transaction cost optimization and frontend integration, delivering a secure and transparent system that improved trust and traceability.
- <https://github.com/Aadthiyans/Blockchain-Counterfeit-Projects>

## TECHNICAL SKILLS

**Programming Languages:** C++, Java, JavaScript, Python

**Frameworks and Tools:** Flask, Solidity, CNN/RNN, Flutter, MongoDB, MySQL, JavaScript, Git, Angular JS, React js

**Other Skills:** Distributed Systems, Blockchain Development, CI/CD, Deep Learning, Cloud Computing