

# DASAPATHI INDRA KUMAR

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LinkedIn — GitHub — LeetCode — Portfolio

## Education

**B.Tech — Computer Science and Engineering (AI)**  
IIITDM Kancheepuram, Tamil Nadu

**CGPA: 8.54/10**  
*2023–2027*

## Technical Skills

**Languages:** C, C++, Python, JavaScript, SQL, TypeScript

**Frameworks & Databases:** Node.js, Express.js, React.js, Next.js, MongoDB, MySQL, Postman

**ML & CS Fundamentals:** Machine Learning, Data Structures and Algorithms, OOPs, DBMS, OS

## Experience

**Backend Development Intern — PearlThoughts**

Chennai, India

*Sep 2025–Oct 2025*

Internship Certificate

- Designed and deployed **12+ REST APIs** using **Node.js** and **Express** with validation and error handling, improving API success rate from **78%–98%**.
- Optimized **MongoDB schemas** and implemented **indexing strategies**, reducing query latency by **30%** on high-traffic routes.
- Enforced **JWT-based authentication** and **role-based access control (RBAC)** to strengthen backend security.

## Projects

**CodeSync Pro — Next.js 15, TypeScript, MongoDB**

GitHub — Live

- Architected a centralized platform to unify **LeetCode**, **Codeforces**, and **global hackathons** into a single workflow.
- Engineered a high-performance aggregation engine using **Next.js** to synchronize contest schedules.
- Implemented a **LeetCode social search** feature and a **smart editorial system** linking contests with solutions.

**Real-Time Video Calling App — React, Node.js, WebRTC, Stream SDK**

GitHub — Live

- Built a low-latency **WebRTC** application supporting **one-to-one video calls** with encrypted messaging.
- Configured **STUN/TURN servers** to ensure reliable peer-to-peer connectivity across **NAT/firewalls**.

**Medical Imaging Analysis Engine — Python, PyTorch, Scikit-Learn**

GitHub — Live

- Engineered an end-to-end medical imaging pipeline comparing ML and DL models for chest X-ray pathology detection.
- Achieved up to **95% AUC** on critical conditions and deployed a **Streamlit** application for real-time inference.

**AgriYield Predictor — Python, Scikit-Learn, XGBoost**

GitHub — Live

- Developed an ML platform for crop yield forecasting as part of the **Infosys Springboard AI Project**.
- Achieved a **91% R<sup>2</sup> score** using soil nutrient and climate data with a modular architecture.

## Achievements

- LeetCode contest rating **1676 (Top 14.49% globally)**; participated in **27 contests** and solved **500+ problems**.
- **Amazon ML Challenge 2025:** Secured **AIR 62** among 80,000+ teams.
- **OpenAI Academy x NxtWave Buildathon 2025:** Selected for **Tamil Nadu State-Level Buildathon**.
- **GirlScript Summer of Code 2025:** Contributor to **three MERN open-source projects**.

## Leadership & Contributions

**Core Member — Competitive Programming Club, IIITDM Kancheepuram**

*2024–Present*

- Conducted **DSA workshops** and coding contests for **150+ students** and mentored **25+ juniors**.

**Placement Cell Volunteer, IIITDM Kancheepuram**

*2024–2025*

- Coordinated campus recruitment drives and student–HR communication during placements.

## Certifications

**Postman API Fundamentals — Student Expert**

*Postman Academy, December 2025*

**Artificial Intelligence**

*Infosys Springboard, June 2025*