

DASAPATHI INDRA KUMAR

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LinkedIn — GitHub — LeetCode — Portfolio

Education

B.Tech — Computer Science and Engineering (AI)

CGPA: 8.54/10

IIITDM Kancheepuram, Tamil Nadu

2023 – 2027

Experience

Backend Development Intern — PearlThoughts

Sep 2025 – Oct 2025

Chennai, India

Internship Certificate

- Designed and deployed 12+ REST APIs using Node.js and Express with validation and error handling, improving API success rate from 78% to 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

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

GitHub — Live

- Built a low-latency WebRTC application supporting 1:1 video calls with encrypted chat and stable signaling.
- Configured STUN and TURN servers to ensure reliable peer-to-peer connectivity across NAT and firewall environments.

CodeSync Pro — Advanced Contest Tracker — Next.js, TypeScript, MongoDB

GitHub — Live

- Built a scalable competitive programming analytics platform aggregating real-time contest and user performance data from **3+ platforms** using **Next.js 15** and **TypeScript**.
- Improved performance and engagement by integrating **TanStack Query**, interactive dashboards (**Recharts**), and automated email notifications, reducing API calls by **70%**.

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

GitHub — Live

- Engineered an end-to-end medical imaging pipeline comparing Traditional ML (HOG + Random Forest) with Deep Learning (DenseNet121) for multi-label chest X-ray pathology detection.
- Achieved up to **95% AUC** on critical conditions (e.g., Edema), demonstrating a **35% performance gain** of representation learning over handcrafted features, and deployed a clinician-facing Streamlit app for real-time inference.

Leadership & Contributions

Core Member — Competitive Programming Club, IIITDM Kancheepuram

2024 – Present

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

Placement Cell Volunteer, IIITDM Kancheepuram

2024 – 2025

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

Technical Skills

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

Frameworks & Tools: Node.js, Express, React, MongoDB, MySQL, Git

Core Subjects: Data Structures & Algorithms, Object-Oriented Programming, DBMS, Operating Systems

Achievements

Competitive Programming: LeetCode Contest Rating **1676** (Top **14.49%** globally), participated in **27** contests; solved **500+** DSA problems across LeetCode, Codeforces, and Coding Ninjas.

Amazon ML Challenge 2025: Secured **AIR 62** among 80,000+ teams (SMAPE score: 43.42).

OpenAI Academy X NxtWave Buildathon 2025: Selected for Tamil Nadu State-Level Buildathon.

GirlScript Summer of Code (GSSoC) 2025: Contributed to 3 MERN open-source projects.