

# Nakul T

📍 Coimbatore | ✉ nakulnuked@gmail.com | 📞 7604989091

🌐 LinkedIn | 🐙 Github | </> LeetCode | 📊 Kaggle

## Professional Summary

---

I am a second-year Artificial Intelligence and Data Science student passionate about AI/ML and Full-stack development. With skills in AI, deep learning, React, Node.js, and databases, I enjoy building user-centric, problem-solving applications.

## Technical Skills

---

**AI & LLMs:** LangChain, Ollama, Vector Databases, RAG

**Deep Learning:** TensorFlow, CNN, LSTM

**Computer Vision:** OpenCV, YOLO, Object Detection & Image Classification

**Full-Stack Development:** MERN stack, TypeScript, NextJS

**Database:** RDBMS, MongoDB

**Programming Languages:** Python, Java, C, MATLAB, R

## Education

---

**KPR Institute of Engineering and Technology**, Bachelor's Degree in Artificial Intelligence and Data Science

Sep 2024 - May 2028

- CGPA: 9.1
- Honours with specialization: Cloud Computing

## Technical Projects

---

**Locus (LangChain · FastAPI · React)**

Dec 2025 | 🐙 GitHub


- **Objective:** Eliminated the productivity drain of context-switching between isolated apps by developing a GenAI-powered assistant that orchestrates workplace workflows across 12+ platforms (Jira, Slack, GitHub, Google Workspace) via a single natural language interface.
- Engineered a task planning agent using LangChain and Google Gemini to decompose natural language requests into multi-step execution plans (e.g., "schedule a meeting and email the invite") with intelligent dependency resolution.
- Integrated OAuth 2.0 and Server-Sent Events (SSE) within a FastAPI backend to ensure secure, real-time command execution and feedback loop for a React-based chat interface.

**FactChecker (RAG · LangChain · Ollama · ChromaDB)**

Sep 2025 – Oct 2025 | 🐙 GitHub

- **Objective:** Developed a Python-based AI fact-checking agent to verify claims by synthesizing evidence from local documents and live web searches.
- Engineered a RAG (Retrieval-Augmented Generation) pipeline using LangChain to query a local news corpus stored in a ChromaDB vector database.
- Integrated Ollama to run local LLMs, enabling evidence-based verdict generation without relying on external APIs or incurring costs.

## FireSense (TensorFlow · Scikit-learn · Numpy · Pandas)

July 2025 – Aug 2025 |  GitHub

- **Objective:** Engineered a deep learning model to predict high-risk wildfire conditions by analyzing historical environmental and meteorological data.
- Built and trained a time-series forecasting model using a TensorFlow stack composed of LSTM and Dense layers to capture temporal patterns.
- Preprocessed and feature-engineered a large dataset of climate variables (e.g., temperature, humidity, wind speed) using Pandas and Scikit-learn.

## MultiVision (OpenCV · YOLO · Face\_recognition)

Apr 2025 – May 2025 |  GitHub

- **Objective:** Built a real-time surveillance system capable of performing concurrent object detection and face recognition and alerting users via email.
- Implemented YOLO for object tracking and integrated the face\_recognition library to enable identity-based detection.
- Developed an automated alert system that sends real-time email notifications upon detecting specific individuals.

## Professional Experience

---

### Hyperready Technology LLP - Junior Developer

Oct 2025 – Present

- Responsible for developing and maintaining the frontend architecture of web applications using React.js, TypeScript, and Tailwind CSS. Built responsive, user-friendly interfaces and implemented reusable UI components for consistency and scalability.
- Integrated and optimized RESTful APIs for efficient communication between frontend and backend.
- Worked with Mastra (AI-focused TypeScript framework) to integrate intelligent features into the product.
- Managed application data using SQL and ensured smooth data handling across components.
- Collaborated closely with the design and backend teams to deliver high-quality, production-ready code. Participated in code reviews, performance optimization, and continuous UI/UX improvements.

**Tech Stack:** React.js, TypeScript, Tailwind CSS, REST APIs, SQL, Mastra, D3.js

### ACM - Web Coordinator

Aug 2025 – Present

- Responsible for maintaining and supporting the websites of ACM, KPRIET
- Ensure website functionality, performance, and content accuracy, coordinating with the technical and design teams for regular improvements.

## Certifications

---

- **Responsible & Safe AI Systems** - Elite NPTEL Certification (IIT Hyderabad) Nov 2025
- **Introduction to Industry 4.0 and Industrial Internet of Things** - Elite NPTEL Certification (IIT KGP) Nov 2025
- **The Joy of Computing using Python** - Elite + Silver NPTEL Certification (IIT Madras) May 2025
- **Introduction to Artificial Intelligence** - Great Learning Sep 2024

## Professional Activities

---

- Secured **1st place** in GCCXSHIFT Hackathon, organized by 6S CONSULTING, KPRIET Dec 2025
- Secured **1st place** in HACK2TECHSUSTAIN 2.0 Hackathon, organized by MIT, Anna University Dec 2025
- Secured **3rd place** in CODE REDEMPTION Hackathon, organized by Jai Shriram Engineering College Aug 2025
- Participated in DEVSPARK'25 – 24-Hour Hackathon, organized by IEEE KPRIET, Coimbatore Sep 2025