

Nirjith D

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PROFESSIONAL SUMMARY

Computer Science Engineering student skilled in full-stack development, AI integration, and cloud-based solutions. Experienced in deploying scalable applications and building intelligent, real-world web systems.

EDUCATION

PSG College of Technology

Bachelor of Engineering in Computer Science and Engineering — CGPA: 7.65

Coimbatore, India

Oct 2022 – May 2026

Sri Lathangi Vidhya Mandir Hr. Sec. School

Higher Secondary Certificate — Percentage: 97.6%

Pollachi, India

2022

PROJECTS

BookMyJourney – AI-Integrated Travel Website | *MERN Stack, Gemini API – Verticurl*

- Reduced trip planning effort by 70% by generating personalized itineraries from unstructured prompts using Gemini API and NLP
- Achieved 90%+ destination relevance accuracy by replacing filters with an AI-driven interface; built for Vercel and deployed on Render using the MERN stack

AI Mock Interview System | *Next.js, Tailwind CSS, Vapi, Firebase, OpenAI API*

- Improved interview readiness by simulating mock technical interviews using OpenAI-powered Q&A and voice interaction via Vapi
- Delivered AI-generated feedback with quantified scoring across five key behavioral and technical metrics, tracked and stored using Firebase.

AI Object Detection Web App | *Next.js, React, TensorFlow.js, COCO-SSD, Canvas API*

- Built a real-time browser-based object detection system using COCO-SSD and TensorFlow.js, enabling identification of 80+ object classes via webcam
- Achieved 95%+ accuracy and sub-100ms inference time on common objects; reduced latency compared to backend-based inference by optimizing in-browser rendering and memory

Smart Street Light Automation | *IoT, ESP32, IR Sensor, LDR, ThingSpeak*

- Optimized energy consumption by dynamically adjusting street light intensity based on vehicle presence and ambient lighting.
- Tracked vehicle movement using IR sensors and ESP32, with real-time data transmitted to ThingSpeak via WiFi; implemented edge-level automation to adjust street lighting based on traffic flow.

TECHNICAL SKILLS

Languages: Python, Java(OOPS), C, SQL

Web Development: Next.js, React.js, Node.js

Frameworks & Tools: Selenium, Postman, TensorFlow

Database & Cloud: MongoDB, Firebase, Vercel, AWS

CERTIFICATIONS & COURSES

AWS Cloud Technical Essentials (AWS)

Deep Learning with Keras (IBM)

Machine Learning with Python (IBM)

Tools of the Trade – Linux (Google)

AREAS OF INTEREST

Artificial Intelligence, Machine Learning, AWS, Embedded System, IoT

LEADERSHIP & ACTIVITIES

Event Organizer – CAP & Nature Club

PSG College of Technology

Organized and led an environmental awareness campaign impacting 100+ students through campus-wide engagement initiatives