# Aravind R

*AI/ML Engineer | Full-Stack Developer*

Aravindr017 | Kerala, India | aravindr017 | ar986153@gmail.com | +91 6237-177-643 | aravindr.netlify.app

## Professional Summary

AI/ML Engineer and Computer Science graduate who builds and deploys end-to-end AI products across deep learning, computer vision, NLP, RAG, and full-stack web development. Student leader who organised 130+ events for IEEE PES Kerala. **IEEE Xtreme 18.0 Global Rank #83** among 19,000+ international participants.

## Experience

**ICT Academy of Kerala** | **AI & ML Intern** | *Python, TensorFlow, PyTorch, Scikit-Learn, OpenCV, RAG* May 2026 – Present

- Building industry-oriented AI/ML projects across machine learning, deep learning, computer vision, NLP, Generative AI, and model deployment.
- [TrackGenesis project] Built a solar power forecasting pipeline on 68k+ inverter readings; cut daylight RMSE by ∼48% versus the 24-hour persistence baseline and developing PuLP battery scheduling with a Streamlit dashboard.

**IEEE PES Kerala Chapter** | **Student Representative** 2025 – 2026

- Led and coordinated 130+ statewide events as Student Representative, working with student volunteers and chapter officials; awarded **Outstanding Student Volunteer**.
- [Add one line: team size, attendance, or a event you organised]

**Spectrum Softtech Solutions** | **Flutter Intern** | *Flutter, Dart, Android Studio* Jun 2025

- Built and tested 3+ cross-platform iOS and Android prototypes, reducing QA cycle time using Android Studio diagnostic tools.

**Amrita School of AI** | **Blockchain Engineering Intern** | *Solidity, Python, Web3* Jan 2025 – Mar 2025

- Co-developed **HEXENE**, a three-tier blockchain framework for carbon credit trading; awarded **3rd Prize** at the Energy Transition Conclave 2025.

**Technovalley Software** | **Cybersecurity Intern** | *Wireshark, Python* Jul 2024

- Modelled real-time MITM attack detection using packet capture and analysis; produced a security mitigation report.

## Projects

**SKINOVA AI: Skin Screening PWA** | *React, FastAPI, ONNX, EfficientNet, Gemini, FAISS* 2026

- Built a dual-engine skin lesion screener (cloud Gemini + EfficientNet-B0) with 100% on-device WebAssembly inference (∼160 ms) offline, a non-skin image filter, and a RAG consultant; deployed on Vercel and Render.

**Speech Command Classifier for Edge** | *Python, ONNX, Sentence Transformers* 2026

- Built a 17 MB offline voice command classifier with 95% accuracy, 91.7% OOS rejection, and $< 50$ ms latency; supports new commands without retraining.

**AI Interview Coach** | *Python, NLP, WebSockets, Docker, React* 2025

- Built a containerised AI app giving real-time answer feedback over WebSockets, cutting feedback wait time by 60%; deployed on Render.

**VaKKoTTy Gaming Platform** | *React 19, Vite, Tailwind, Three.js, Cloudflare* 2026

- Redesigned a live creator site with 5-language i18n, 3D visuals, and a Google OAuth admin CMS; cut YouTube API usage to 1 quota unit per fetch.

## Education

**College of Engineering, Adoor** — Pathanamthitta, Kerala Aug 2022 – May 2026
*B.Tech in Computer Science and Engineering* — GPA: 8.05 / 10

**St. Stephen's Higher Secondary School** — Kollam, Kerala May 2022
*Higher Secondary — Science (PCM)* — 92.58%

**St. Stephen's High School** — Kollam, Kerala May 2020
*SSLC (10th Standard)* — 98%

## Technical Skills

**Languages:** Python, Java, C++, C, SQL, JavaScript, HTML5, CSS3
**AI / ML:** TensorFlow, PyTorch, Scikit-Learn, OpenCV, NLP, RAG, GenAI, Deep Learning, ONNX, FAISS, OpenAI API, NumPy, Pandas
**Web & DevOps:** React, Node.js, FastAPI, REST APIs, WebSockets, Tailwind CSS, Docker, Git, Vercel, Render, Cloudflare, MongoDB, Firebase
**Core CS & IoT:** Data Structures & Algorithms, OOP, DBMS, Arduino, ESP8266, MATLAB

## Achievements

**IEEE Xtreme 18.0 — Global Rank #83:** Top 0.5% of 19,000+ participants; #1 in college (2024).
**3rd Prize — Energy Transition Conclave 2025:** HEXENE carbon credit blockchain framework (national level).
**1st Prize — PowerConnect+ Idea Pitching:** Won among 50+ teams, Amal Jyothi College of Engineering (2023).