

ADIL SUKUMAR

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EDUCATION

Vellore Institute of Technology

Aug'25–May'30

Integrated M.Tech. Artificial Intelligence & Bioinformatics | CGPA: 9.10/10

EXPERIENCE

British Airways

Oct'26–Present

Data Science Job Simulation

- Undertake a self-paced virtual data science simulation focused on **customer insights and predictive analytics** for airline business decisions.

Pawsitive Diagnostics

Feb'26–Present

Founder and CEO

- Lead **software, hardware and machine learning** development for a **wearable animal-health system** integrating **motion, acoustic, environmental and surface-temperature sensing**.
- Build **edge-to-cloud workflows** for filtering, baselines, **activity recognition** and anomaly alerts.

ElectraWireless

May'26–Aug'26

Lead Intern, IoT & Embedded Systems

- Co-created **ELLY's offline-first React/TypeScript** ecosystem with **Web-LLM** voice control, **TensorFlow.js/MobileNet** vision and **BLE/Wi-Fi** discovery.
- Automated **Capacitor** iOS and Android builds with **GitHub Actions**.

TrustLayerLabs

May'26–Jun'26

Product Experience and Operations Intern

- Performed **product QA and bug validation** for an **AI cybersecurity platform**; documented workflows and coordinated **deployment and onboarding support**.

PROJECTS

Whisper for Windows | C#, WPF, Python, .NET

2026

- Built a **native Windows assistant** with a **WPF client**, Python services and configurable local-model setup.
- Validated service and account logic with **112 Python tests** and **146 C# core assertions**; automated checks through **GitHub Actions**.

Portiva | Java, Python, C++, Android

2026

- Built shared **mission controllers** and an **Android bench demo** for a person-following delivery robot, including delivery, unloading, return and fault states.
- Implemented heading-aware **A* planning**, **swept-body collision checks** and an **authenticated request queue**; validated simulated workflows with physical motor output disabled.

SoftSpace and SoftFlex | CAD, Python, FEA

2026

- Developed **six adjustable headphone CAD variants** and a **glasses-aware cushion concept**, retaining design history, analysis source and traceable evidence.
- Audited **eight higher-order joint reference cases** and **mesh-displacement comparisons**; documented material assumptions and the physical tests still required.

Atlas Voice Assistant | Python, Speech Recognition, Automation

2023; updated 2026

- Implemented voice/text commands, **bounded sleep/wake behavior** and **dry-run execution**; added **10 unit tests**.

TECHNICAL SKILLS

Languages: Python, C, C++, C#, Java, JavaScript, TypeScript, SQL

Web and Frameworks: React, Node.js, Express, TanStack, .NET/WPF, REST APIs, Tailwind CSS

Data and ML: NumPy, Pandas, SciPy, scikit-learn, LightGBM, XGBoost, ONNX

Cloud and Databases: AWS S3/EC2, Vercel, Supabase/PostgreSQL, Firebase, GitHub Actions

Tools and Systems: Git, Linux, MQTT, WebSockets, Android, Arduino, ESP32

Engineering: CAD, FEA, sensor processing, automated testing

LEADERSHIP AND ACHIEVEMENTS

VIT Student Council — Member Secretary – Technical | Sep'26–Present

WiCyS Student Chapter, VIT — Secretary | Dec'25–Present

The FinTech Club, VIT — Core Member, Technical Market Analyst Team | Dec'25–Present

- CyberShield Hackathon 2025, VIT — **First Place**.
- SKITECH National Innothon 3.0, Indore — **First Runner-Up**, national level.
- SASI National Hackathon 2026, Andhra Pradesh — **Top 6**, national level.