

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

- Pursue a virtual data science simulation in **customer insights and predictive analytics** for airline decisions.

Pawsitive Diagnostics 

Feb'26–Present

Founder and CEO

- Lead **software, hardware and machine learning** development for a **wearable animal-health system**.
- Integrate **motion, acoustic, environmental and surface-temperature sensing** into **edge-to-cloud work-flows**.
- Develop **signal filtering, individual baselines, activity recognition and context-aware anomaly alerts**.

ElectraWireless 

May'26–Aug'26

Lead Intern, IoT & Embedded Systems

- Co-created **ELLY's offline-first** ecosystem using **React/TypeScript, Web-LLM** voice control and **TensorFlow.js** vision.
- Integrated **Web BLE, Wi-Fi subnet discovery, MQTT and WebSockets** for local device control.
- Built **Capacitor mobile clients** and automated **iOS/Android builds** through **GitHub Actions**.

Sequensolutions 

Dec'25–Mar'26

AI and Bioinformatics Intern

- Used **AWS S3/EC2, Python and Linux** for variant-calling, RNA-seq and sequencing-data processing.
- Analyzed SCLC sequencing data through **read quality control, GRCh38 alignment and variant annotation**.

PROJECTS

Whisper for Windows | Software; 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 | Hardware/Robotics; Java, Python, C++, Android, Arduino

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.

Zebrafish Formaldehyde Toxicity | Bioinformatics; Python, OECD QSAR Toolbox

2026

- Analyzed 96-hour mortality in **30 adult zebrafish** using Python, **Abbott correction** and log-concentration/probit interpolation with endpoint sensitivity checks.
- Integrated **six OECD QSAR Toolbox/literature reports**, source hashes and chemical depictions with tested JSON/SVG analysis outputs.

TECHNICAL SKILLS

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

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

Hardware and Embedded: ESP32, Arduino, IoT, sensor integration, MQTT, WebSockets

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

Cloud and DevOps: AWS S3/EC2, Docker, Git, GitHub Actions (CI/CD), Vercel, Linux

Databases: PostgreSQL, Supabase, Firebase

Bioinformatics: SRA Toolkit, FastQC, MultiQC, BWA, SAMtools, GATK, SnpEff/SnpSift

Research and Engineering: OECD QSAR Toolbox, CAD, FEA, numerical simulation

LEADERSHIP AND ACHIEVEMENTS

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

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