

Aravind V. A.

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Goal

Passionate about leveraging Machine Learning and Quantum computing to design and implement intelligent systems, while continuously improving my technical skills and contributing to innovative software development projects.

Education

Siddaganga Institute of Technology

Tumakuru, Karnataka

Bachelor of Engineering, Electronics and Communication Engineering.

- CGPA: 8.00/10.00

May 2024

Experience

Tata Consultancy Services

June 2024 - February 2026

Role: SAP Digital Manufacturing (DM) Support Analyst

Client: **Pandora A/S**

- Acted as key support analyst for Pandora's SAP DM application, analysing the system stability and integration across business and functions, reducing the workload of every member by up to 20%.
- Functioned as **team lead backup**, ensuring smooth operations, streamlined system analysis workflows, accelerating root cause identification, and contributing to faster issue resolution ensuring consistent SLA compliance.
- Gained in-depth knowledge of integration processes and functional workflows, enhancing support efficiency by reducing issue resolution time by approximately 30% through proactive root cause analysis.
- Recognized by TCS with a **4.09/5.00** rating for performance and contribution during the first year of engagement.

Certifications

Quantum Computing and Artificial Intelligence

Indian Institute of Science (IISc), November 2025

Focused on foundational principles of quantum algorithms and computational applications, including quantum machine learning and quantum cryptography. Worked on a project titled "**QryptChat**," a chat application implementing the **BB92** algorithm to demonstrate a secure communication channel between two parties.

Projects

Alzheimer's disease detection using Deep Learning

Jan-April 2024

Led a team of four to optimize a CNN model for early Alzheimer's disease detection using MRI scans, with responsibilities in model design, training, and GPU memory optimization to improve efficiency. Utilized Jupyter Notebook, TensorFlow, pandas, NumPy, and scikit-learn to achieve high accuracy in predictions.

Publication: V. A. Aravind et al., "Alzheimer's Disease Detection from MRI Images using Histogram of Oriented Gradients and Support Vector Machine," *2024 International Conference on Smart Systems for applications in Electrical Sciences (ICSSES), Tumakuru, India, 2024*, pp. 1-6, doi: [10.1109/ICSSES62373.2024.10561304](https://doi.org/10.1109/ICSSES62373.2024.10561304).

Development of IoT enabled breathing sound detection system

Jan-April 2023

Managed a team of four in developing an IoT-based breathing sound detection system with an INMP441 microphone and ESP32 microcontroller for real-time respiratory analysis. Responsibilities included coding communication between the microcontroller and server. Utilized C++ and an HTTP server for audio storage, and MATLAB for noise filtering.

Poster presentation: "*Noninvasive asthma detection using mmWave sensor and federated learning*" - Presented at **IIT Bombay AI Impact 2023 workshop on impactful AI technologies**, 2023

Developed a simple health monitoring system using IoT and ML as a part of Industrial training program.

Sept.-Oct. 2022

Directed a team of six in developing an IoT based health monitoring system using Raspberry Pi 3, DS18B20 temperature sensor, and pulse sensors for temperature and heart rate tracking. Responsibilities included integrating sensors and establishing MQTT communication between Raspberry Pi and a mobile application developed using Android Studio.

Skills and Interests

Technical Proficiency: Python, Machine learning, Git.

Languages: English (Fluent), Kannada (Fluent), Hindi (Fluent), Telugu (Conversational), Japanese (Beginner).

Interests: Formula One, Quantum Computing, Cars, Gadgets, Art.