JAYADITYA G NAIR

+91 9108227694 ◇ Bengaluru, KA, IN

jayaditya10378@gmail.com ◇ linkedin.com/in/jayaditya-g-nair-6a211b257

OBJECTIVE

AI and Embedded Systems Engineer with hands-on experience in full-stack development, IoT, and AI/ML integration, seeking high-impact roles in software engineering, AI development, or embedded systems. Proven ability to build and deploy scalable applications, automate business processes, and implement intelligent systems across hardware and software environments.

EDUCATION

Acharya Institute of Technology (VTU)
Bachelor of Engineering, Electronics and Communication Engineering
Grade: 9.35/93.5%
Dec 2021 - July 2025
Bengaluru, KA, IN

St. John's High School (ISC)
Class XII
Grade: 94%
Dec 2021 - July 2025
Bengaluru, KA, IN

St. John's High School (ICSE)
Class X
Grade: 91.8%
Dec 2021 - July 2025
Bengaluru, KA, IN

SKILLS

- Programming Languages: Python, Java, C, TypeScript, JavaScript
- Web & App Development: React, Node.js, Flutter, FlutterFlow, Supabase, REST APIs
- AI & Machine Learning: LangChain, LLMs, RAG (Retrieval-Augmented Generation), TensorFlow Lite, ML Classification, Data Analysis
- Embedded Systems & IoT: Arduino, Raspberry Pi, Bluetooth, Sensors (Accelerometer, Gyroscope, Heart Rate, SpO2, Temperature)
- Data & Automation: Power Automate, Power Apps, Streamlit, Pandas, NumPy, openpyxl, Matplotlib, IBM Cloud
- Tools & Platforms: GitHub, VS Code, Hostinger, Chroma (Vector DB), Excel
- Soft Skills: Team Leadership, Cross-functional Collaboration, Technical Communication, Problem Solving

EXPERIENCE

Technical Consultant
Karmobhumi Consultancy Services Pvt. Ltd
July 2025 - April 2026
Mumbai, MH, IN

- Collaborated directly with the founder to architect and develop scalable web and mobile applications for skill development and enterprise use cases.
- Built full-stack solutions using React, TypeScript, Node.js, and Supabase, integrating authentication systems, backend automation, and data visualization features.
- Drove UI/UX enhancements and oversee product design decisions, ensuring intuitive and engaging user experiences.
- Coordinated development and marketing to streamline deployment workflows and user onboarding processes.

Intern – Digital Initiatives and Transformation
Welspun One
Feb 2025 - June 2026
Mumbai, MH, IN

- Designed and deployed automated business workflows using Microsoft Power Automate, improving operational efficiency across internal processes.
- Converted complex, multi-sheet Excel-based asset management models with intricate financial formulas into scalable Python applications, enabling AI-driven automation.
- Developed a conversational AI assistant using LangChain, GPT-4.1, and Chroma (Vector DB) trained on warehouse planning documentation, architectural guidelines, and project references, enabling layout suggestions and regulatory compliance checks via RAG.
- Collaborated with cross-functional teams to integrate automation solutions.

Intern – Data Analyst
Nov 2025 - Dec 2025

Edunet Foundation, IBM
Bengaluru, KA, IN

- Conducted in-depth data analysis to identify patterns, trends, and optimization opportunities, improving overall project efficiency.
- Implemented cloud-based data management solutions on IBM Cloud to improve scalability and streamline workflows.
- Assisted in integrating AI-driven cloud solutions, enhancing data insights and operational effectiveness across teams.

PROJECTS

Karmobhumi App

Technologies Used: React, TypeScript, Node.js, Supabase, API Integration

- Built a skill-development and employment platform for blue-collar workers with authentication, resume-building, and gamified progress tracking.

Automation of Asset Management Models

Technologies Used: Python, Streamlit, Pandas, openpyxl, API Integration

- Converted complex Excel-based financial models into a modular Python application with scenario analysis and automated reporting.

AI Warehouse Rules and Regulations Bot

Technologies Used: Python, LangChain, GPT-4.1, Chroma, LLM Integration

- Developed a RAG-based assistant for warehouse planning, layout suggestions, and regulatory compliance support.

Data Visualization App

Technologies Used: React, TypeScript, Node.js, Supabase

- Designed a data visualization platform to present project metrics through interactive charts and summarized reports.

Insomnia Monitoring and Vibration Therapy Device

Technologies Used: Python, TensorFlow Lite, Arduino, Flutter, Sensor Integration

- Built an IoT-based wearable system that predicts insomnia using sensor data and provides vibration therapy recommendations.

Emotion Detection via EEG Analysis

Technologies Used: Python, Machine Learning

- Created an EEG-based emotion classifier using signal processing and ML, achieving 89.6% accuracy.

VOLUNTEERING AND SOCIAL SERVICES

National Service Scheme (NSS)
Nov 2025 - Dec 2025

Bengaluru, KA, IN

- Led and participated in community service programs focused on sustainable development, education, and social responsibility.
- Volunteered as a teacher in government schools, educating underprivileged students by simplifying complex subjects to improve learning outcomes.
- Organized book and stationery distribution drives, ensuring students had access to necessary academic resources.
- Participated in a plantation drive at the Department of Horticulture, Karnataka, promoting environmental sustainability.