

# B. Jeyaram Reddy

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[LinkedIn](#) [GitHub](#) [Portfolio](#) [Profile](#)

## Executive Summary

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Electronics and Communication Engineering student with strong expertise in IoT, Embedded Systems, AI/ML, and Full Stack Development. Experienced as an AI/ML Automation Team Leader using n8n, building intelligent agents and real-time automation systems. Skilled in integrating hardware, backend systems, and AI technologies to develop scalable and innovative solutions.

## Skills

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**Programming:** Python, C++, Embedded C, Java

**Frontend:** HTML, CSS, JavaScript, React, Kotlin, XML

**Backend:** SQL, MySQL, MongoDB, Firebase, Supabase

**AI/ML:** OpenCV, NumPy, API Integration, Data Processing

**Core:** IoT, Embedded Systems, Automation (n8n), Robotics

**Hardware:** Arduino, ESP32, NodeMCU, Sensors

**Design:** Blender, UI/UX

**Soft Skills:** Leadership, Communication, Problem-Solving

## Tools

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GitHub, Excel, Android Studio, VS Code, REST APIs, Firebase Console, Supabase Dashboard

## Education

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### B.Tech – Electronics and Communication Engineering

PBR Visvodaya Institute of Technology and Science

2023 – 2027

**Relevant Coursework:** Data Structures, Microprocessors, Embedded Systems, Control Systems, Digital Electronics

## Work Experience

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### AI/ML & Automation (n8n) Team Leader

Blue Planet Infosolutions Pvt. Ltd.

Nov 2025 – Present

- Designed and deployed AI-powered automation workflows using n8n, APIs, and databases
- Developed intelligent agents including WhatsApp and Telegram bots using OpenAI APIs
- Integrated backend systems (Firebase, Supabase, SQL) for real-time automation
- Led team operations including task allocation, development, and deployment

### PCB Design Intern

Daikin Airconditioning India Pvt. Ltd.

Dec 2025

- Worked on PCB design fundamentals and circuit analysis
- Assisted in schematic design and understanding industrial electronics systems
- Gained exposure to real-world manufacturing and testing processes

### Student Ambassador

AENEX Tech Private Limited

Dec 2025 – Present

- Represented organization in technical events and student communities
- Promoted technical programs, workshops, and innovation initiatives
- Coordinated with teams to increase engagement and participation

## Projects

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### Smart Sensor Bridge (Android App)

[Live Demo](#)

- Developed Android app for real-time IoT sensor monitoring and control
- Integrated Firebase backend for live data communication
- Designed interactive UI for real-time visualization and control

### Face Driving Bot (Android + AI)

[Live Demo](#)

- Developed face-controlled robot using Android Studio and computer vision
- Implemented face detection using OpenCV and real-time command execution
- Integrated mobile application with embedded hardware system

### Stock Market Analyst Agent (n8n + AI)

[GitHub](#)

- Built automated stock analysis system using AI and chart generation
- Integrated Telegram bot for delivering real-time insights
- Designed scalable workflows for financial data analysis

### WhatsApp AI Agent (n8n + OpenAI)

[GitHub](#)

- Developed AI chatbot handling text, voice, and image inputs
- Integrated OpenAI APIs for intelligent response generation
- Enabled real-time conversational automation system

### Deadline Monitoring System (n8n + Supabase)

[GitHub](#)

- Developed automated system to track deadlines and send alerts
- Integrated Supabase database and Telegram notification system
- Built web-based submission tracking interface

### Women Safety Device (IoT)

[GitHub](#)

- Developed emergency system using Arduino, SIM900A, and GPS module
- Sends SOS alerts with real-time location tracking
- Implemented panic mode with automatic periodic updates

### Fish Robot (Aqua Bot-X)

[GitHub](#)

- Built ESP32-based robot for water quality monitoring and gas detection
- Integrated ESP32-CAM for live video streaming
- Designed web-based control system for navigation

### Smart Delivery Robot (AI + IoT)

[GitHub](#)

- Implemented A\* algorithm for intelligent path planning
- Integrated GPS tracking and obstacle avoidance system
- Designed automated delivery and return mechanism

### AI Assistant Robot ("Hey Max")

[GitHub](#)

- Developed voice-controlled robot with wake word detection
- Implemented face recognition and smart home control
- Integrated real-time response and automation system

### Smart Wheelchair System

[GitHub](#)

- Developed wheelchair controlled via voice, app, and eye tracking
- Integrated health monitoring and SOS alert system

- Enabled smart home integration and real-time tracking

### **Web & Android Projects**

- Money Notebook App – expense tracking system
- Vinayaka Bakery Web Application – ingredient calculator
- Tic-Tac-Toe Game – interactive UI with animations
- Multiple Android utility applications

### **Achievements**

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- AI/ML Team Leader at Blue Planet Infosolutions
- Developed multiple real-world AI, IoT, and automation systems
- Strong full-stack and embedded system integration skills

### **Languages**

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English, Tamil, Telugu, Hindi