

# RESUME

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**Eraianbu R**

**Bachelor of Artificial Intelligence and Data Science**

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## Objective:

I am passionate about Artificial Intelligence and Data Science, focusing on building intelligent, data-driven solutions for real-world challenges. I specialize in machine learning models, robust data pipelines, and actionable insights from complex datasets. I stay updated with the latest AI advancements to create scalable, high-performance systems. My goal is to drive innovation through automation, predictive analytics, and data-driven decision-making.

## Education:

- **Kumaraguru College of Technology (2022-2026):**
  - BTech- Artificial Intelligence and Data Science
  - CGPA-8.01 (Till 5th semester)
- **The Vijay Millennium Sr sec school, Dpi (2021-2022):**
  - HSC
  - Score-74.5 %
- **Sri Vijay Vidyalaya Boys Hr Sec School, Dpi (2019-2020):**
  - SSLC
  - Score-96.4 %

## Soft Skills:

- Team Management
- Event Management
- Problem Solving
- Critical Thinking
- Leadership
- Quick learner
- Adapting new frameworks, tools, and technologies

## Tech Skills:

**Programming:** Python, MySQL, R

**ML Frameworks:** TensorFlow, PyTorch, Hugging Face, OpenCV

**Tools:** GitHub, Cursor, MongoDB Atlas, Streamlit

**Concepts:** Data Analysis, Machine Learning, Deep Learning, Computer Vision.

**OS:** Windows, Ubuntu, Raspberry Pi OS (Linux-RPi)

**Dev Practices:** Debugging, Code Documentation, Integration with version control systems

**Other Tools:** Excel, AutoCAD, Fusion 360,





## Projects:

- **Technical Lead - Cloud Radar System - Ezon Energy Solutions (P) Ltd (Apr 2024 - Mar 2025)**
  - Developed an AI-powered dual-axis solar tracker using Raspberry Pi and OpenCV for real-time sun and cloud detection, optimizing panel orientation and boosting energy capture by 15-20% in cloudy conditions. Built a remote dashboard for live monitoring of panel position, cloud cover, and energy output.
- **Innovation Engineer - Forge Innovation and Ventures (Aug 2024 - Jan 2025)**
  - Developed a ROS2-based AI navigation system with smart path planning, sensor fusion, and real-time obstacle avoidance for intelligent material handling. Designed the robot chassis and full design using Fusion 360 and AutoCAD for precise 3D modelling and structural planning.
- **Personal Website: Portfolio**
  - Designed and deployed a responsive personal portfolio website using React (frontend) and Node.js (backend) in Cloudflare. Focused on delivering a smooth user experience with clean UI, optimized performance, and interactive features to effectively showcase my skills and projects.
- **FacelQ - Automatic Face Recognition Web App**
  - Developed FacelQ, a face recognition web application using React.js, Node.js, and Python with OpenCV and the Face Recognition library. The system supports manual face registration and recognition through webcam input, with name tagging and persistent storage. Additionally, integrated a RAG-based chatbot to handle user queries by retrieving relevant information from a predefined knowledge base.
- **Paper Presentation - IEEE (Apr 2024 - Oct 2024)**
  - Presented paper titled on "Artistic Fusion:AI Powered Artistry for Story Boarding " 4th International Conference on Sustainable Expert Systems " - 15 -17 Oct,2024
- **ML Engineer - Codsoft (May 2024 - Jun 2024)**
  - Developed machine learning models in Python for real-world classification tasks. Projects included spam detection and movie genre classification. Utilized NLP, data preprocessing, and feature engineering techniques. Evaluated models using accuracy, precision, recall, and F1-score for reliability.

## Internship / Research:

- Presented paper titled on "Artistic Fusion:AI Powered Artistry for Story Boarding " 4th International Conference on Sustainable Expert Systems " - 15 -17 Oct,2024
- Innovation Engineer- Forge Innovation & Ventures- Aug 2024 - Jan 2025
- Codsoft - ML Engineer - May 2024 - June 2024

## Certification & Awards:

- Department Recognition Award - 2025
- CRS Project completion certificate from Ezon and KCIRI - 2025
- Graduate Innovation Engineer Trainee Certificate of FORGE - 2024
- ROS2 for beginners - Udemy - 2024
- Python programming Advanced: Understanding Weird Concepts - Great Learning - 2023
- Rajya Puraskar Award from Scouts and Guides in 2018.

## Personal Interests:

- Artificial Intelligence
- Data Analysis
- Machine Learning

## Languages:

- English
- Tamil
- Hindi

**DOB : 22.12.2003**

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