

Eraianbu Rajkumar

AIML Engineer | Data Analyst | Front-End Developer

About me:

Passionate and results-driven B.Tech student in Artificial Intelligence and Data Science at Kumaraguru College of Technology, Tamil Nadu, specializing in Data Analytics. Experienced in developing AI-driven solutions for real-world applications, with hands-on expertise in computer vision, machine learning, and robotics. Notable projects include an AI-powered storyboard generator and a drone-based crop monitoring system. Skilled in front-end web development, with a strong focus on creating user-friendly, visually engaging websites that blend functionality with creativity.

Experience:

- Alumni Ambassador - Kumaraguru College of Technology (Oct 2024 - Present)
- Treasurer - Dept Association of Artificial Intelligence and Data Science - Kumaraguru College of Technology (Aug 2024 - Present)
- Technical Lead - Cloud Radar System - Ezon Energy Solutions (P) Ltd (Apr 2024 - Mar 2025)
- Innovation Engineer - Forge Innovation and Ventures (Aug 2024 - Jan 2025)
- Paper Presentation - IEEE (Apr 2024 - Oct 2024)
- Executive Member - Dept Association of Artificial Intelligence and Data Science - Kumaraguru College of Technology (Oct 2023 - Aug 2024)
- ML Engineer - Codsoft (May 2024 - Jun 2024)

Skills:

Hard Skills:

- DJing
- Chess
- PPT/Slides
- Excel/Sheets

Soft skills :

- Teamwork
- Leadership
- Critical Thinking
- Problem Solving
- Team management
- Event Management

Programming languages:

- Python
- MySQL
- HTML, CSS
- R

Tech Skills:

- Machine Learning
- Computer Vision
- UIPath Studio
- Data Analysis
- Data Visualization
- Linux-RPi
- ROS2
- MongoDB Atlas
- UI/UX Design - Figma
- Prompt Engineering
- Autocad
- Fusion 360
- API
- Google Cloud Platform (GCP)

Projects:

- Technical Lead - Cloud Radar System - Ezon Energy Solutions (P) Ltd (Apr 2024 - Mar 2025)** [Click Here](#)
 - 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** [Click Here](#)
 - 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.
- FaceIQ - Automatic Face Recognition Web App** [Click Here](#)
 - Developed FaceIQ, 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.
- Urban layout Designing with hybrid VAE-CGAN** [Click Here](#)
 - Developed a hybrid generative model to create urban layouts optimized for environmental constraints and sustainability.
- Paper Presentation - IEEE (Apr 2024 - Oct 2024)** [Click Here](#)
 - 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)** [Click here](#)
 - Developed machine learning models in Python for real-world classification tasks. Projects included spam detection, movie genre classification, and churn prediction. Utilized NLP, data preprocessing, and feature engineering techniques. Evaluated models using accuracy, precision, recall, and F1-score for reliability.

Contact :

- eraianbu873@gmail.com
- +91 63824 84009
- Coimbatore, Tamil Nadu, India
- [Portfolio](#)
- [LinkedIn](#)
- [Github](#)

Education:

- Kumaraguru College of Technology (2022- Present)
 - BTech- Artificial Intelligence and Data Science
 - CGPA- 8.01 (Till 5th semester)
- The Vijay Millennium Sr Sec School (2021 - 2022)
 - HSC
 - Percentage-74.5 %
- Sri Vijay Vidyalaya Boys Hr Sec School (2019-2020)
 - SSLC
 - Percentage-96.4 %

Certifications:

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