Eraianbu Rajkumar

AIML Engineer | Data Analyst | Front-End Developer

Contact :

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- Coimbatore, Tamil Nadu, India
- Portfolio
- LinkedIn
- Github

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.

Education:

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

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)

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.

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

- Machine Learning
- Computer Vision
- UIPath Studio
- Data Analysis
- Data Visualization
- Linux-RPi
- ROS2
- UI/UX Design - Figma
- Prompt Engineering
- Autocad
- Fusion 360
- MongoDB Atlas

Tech Skills:

- Streamlit
- API
- Google Cloud Platform (GCP)

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 modeling 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.
- **Urban layout Designing with hybrid VAE-CGAN**
  - Developed a hybrid generative model to create urban layouts optimized for environmental constraints and sustainability.
- **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, 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.