

Jaykumar Girase

Shirpur

Email

+91 8010582428

Linkdin

Portfolio

Github

Career Objective

Passionate Electrical Engineering student with a strong foundation in automation, IoT, and machine learning, seeking to apply analytical, organizational, and technical skills as a Project/Program Management Intern. Enthusiastic about leveraging Python, data analytics, and cloud technologies to support efficient product delivery, streamline development lifecycles, and drive digital transformation within dynamic engineering environments.

Education

R C Patel Institute of Technology, Shirpur, Maharashtra

Nov 2022 – Present

- Bachelor of Technology in Electrical Engineering

Experience

Stem Educator and Media Design Intern, STEMSAGE TECHWORLD LLP, Shirpur

May 2024 – Aug 2024

- Led Arduino and electronics workshops, developing course materials and project guide s.s
- Conducted hands-on training sessions on robotics, IoT, and coding, engaging students in interactive STEM learning.

Data Analyst Intern, Unified Mentor Pvt. Ltd., Gurugram Haryana

June 2025 – August 2025

- hands-on experience in data analysis processes, including data cleaning, transformation, and visualization using Excel and analytics tools.
- Supported the analytics team by generating insights from business data to assist in decision-making and reporting.

Publications

ML Based Fault Diagnosis for Electrical Drives

December 2024

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Projects

RetailSync AI – AI-Powered Retail Media Ad Creation Platform [GitHub](#)

- Developed an AI-first retail advertisement creation platform using Next.js, React, TypeScript, Tailwind CSS, and Fabric.js, enabling marketing teams to generate brand-compliant retail ads in under 5 minutes through a professional canvas editor and natural-language AI commands.
- Implemented a scalable backend with AI Copilot (Groq LLaMA 3.3), MongoDB, NextAuth, and third-party integrations (Remove.bg, Pexels) to deliver real-time design automation, compliance validation, asset processing, and high-performance exports for large-scale retail media campaigns.

Cybersecurity Suspicious Web Threat Interactions [GitHub](#)

- Developed a machine learning-based cybersecurity system using Random Forest, Isolation Forest, and Neural Networks to detect and classify suspicious web threats in real time through advanced data preprocessing and feature engineering.
- Built an interactive Streamlit dashboard integrated with SQL-based storage for live anomaly visualization, model performance analysis, and real-time cybersecurity threat monitoring.

Motix-AI -Energy Consumption Forecasting for Smart Grids (Major Project) [GitHub](#)

- Built a predictive maintenance system for industrial motors, achieving 93.13% accuracy in diagnosing critical faults. This solution can minimize downtime in critical infrastructure, enhancing operational efficiency and reducing maintenance costs.
- Simulated 6 critical fault conditions across 3 torque levels, generating 40K+ labeled data points via MATLAB/Simulink. Built scalable ML pipeline with 10+ engineered features, optimized using grid search and 5-fold cross-validation.

Technologies

Programming & Software: HTML,CSS, JS , C, CPP, python, vue.js, react.js, jupiter notebook, MATLAB/Simulink.

Development Tools: Embedded Systems, Visual Studio Code, Kiro, MATLAB, IOT , PLC.

Hardware Tools: Soldering, DMM.

Achievements

Electric Toy Making Competition at RCPIT

Feb 2025

- 1st Place.

German Language Proficiency

Feb 2025

- Successfully cleared the Deutsch-Zertifikat A1 (Institute Level).

Open Gateway Hackathon (Nokia)

Oct 2025

- Top 4th Rank in the India.

GlobaTech Hackthon,Pune

Feb 2024

- Globathon 7th Finalist