

JAYKUMAR GIRASE

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OBJECTIVE

Final-year B.Tech Electrical Engineering student seeking a **6-month Software Engineering Internship**. Proven track record of building production-grade AI/ML systems and full-stack web applications, with top rankings in national-level hackathons including Nokia, Globathon, and Tesco dunnhumby. Proficient in Python, React, Next.js, and cloud-native development.

EDUCATION

R C Patel Institute of Technology

Bachelor of Technology in Electrical Engineering

Shirpur, Maharashtra

Sep 2022 – June 2026

PROJECTS

RetailSync AI – AI-Powered Retail Media Ad Creation Platform

[GitHub](#) [Live](#)

- Built an AI-powered retail ad creation platform using **Next.js 14**, **React 19**, **TypeScript**, reducing ad creation time from 4–6 hours to under 5 minutes with 70+ natural language AI commands.
- Integrated **Groq LLaMA 3.3 70B** for sub-0.5s AI canvas command execution, **Remove.bg API** for background removal, and **Pexels API** for stock images, achieving 98% first-pass brand compliance.
- Implemented **NextAuth.js** (Google OAuth + Email/Password), MongoDB Atlas, and deployed on Vercel with Lighthouse score 95+ targeting a 10x production capacity improvement for retail media teams.

Automated Chaser Agent – Intelligent Task & Reminder Automation System

[GitHub](#) [Live](#)

- Engineered a production-grade task management platform using **Next.js 14**, **TypeScript**, and **MongoDB Atlas** that automates the full reminder lifecycle with smart tone escalation (Friendly to Escalation) based on deadline and priority.
- Built AI reminder generation with **Groq LLaMA 3.3 70B**, multi-auth (Google OAuth + OTP), and **Boltic webhook** integration for scheduled cron automation across tasks and teams.
- Developed analytics dashboard with gamified leaderboard, badges/streaks, completion trend charts (Recharts), and PDF/CSV export; validated with Zod and React Hook Form.

HELIOS AI – GenAI-Powered Predictive Solar Farm Management

[GitHub](#) [Live](#)

- Built a full-stack solar fault detection system (**React 18 + FastAPI + Python 3.11**) with Virtual EL Imaging via Conditional GANs, reducing fault detection time by **96%** (hours to under 3 seconds) with 94% accuracy.
- Implemented **Multi-Modal Root Cause Analysis** fusing electrical, thermal, visual, and weather data via Groq LLaMA 3.3 70B, generating human-readable reports and cutting operator training time by 70%.
- Integrated **Firebase Realtime DB**, **Supabase**, and **HuggingFace Vision Models** with FastAPI REST endpoints, real-time alert panels, and farm KPI dashboards for zero-downtime solar monitoring.

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, C, C++, SQL, Shell Scripting (Bash)

Frontend: React.js, Next.js, HTML, CSS

Backend & Databases: Node.js, FastAPI, Flask, MongoDB, Firebase, Supabase, PostgreSQL

AI/ML: Scikit-learn, TensorFlow, Pandas, NumPy, MATLAB/Simulink, Groq API, HuggingFace

DevOps & Tools: Docker, Kubernetes (Basics), Linux/Ubuntu, Git, GitHub, Vercel, VS Code, Jupyter Notebook

ACHIEVEMENTS

- Nokia Open Gateway Hackathon Finalist** – Ranked **Top 4** out of 1,800+ teams nationwide.
- Globathon Finalist** – Ranked **Top 7** out of 200+ international teams.
- Tesco Retail Media Innovation Jam by dunnhumby - Finalist - Top 7** team out of 8,000+ participating teams
- Fynd Hacktimus Hackathon** – Secured **3rd Rank**.
- L&T Techgium – Finalist** – Selected among national finalists in L&T's flagship engineering innovation challenge.