

# KRISHNA JADHAV

Full-Stack Engineer & AI Agent Developer

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## PROFESSIONAL SUMMARY

I'm a Full-Stack Engineer and AI Developer who enjoys building things that actually work — not just in demos, but in production. Over the past couple of years I've shipped a **RAG-powered portfolio with semantic search**, an AI resume matcher, a fully automated **AI video generation pipeline** orchestrated with n8n, and a fraud detection system trained on 6.3M+ records. Each project pushed me to think carefully about reliability, edge cases, and what it takes for software to hold up under real conditions.

On the AI side, I work hands-on with **LLMs, vector embeddings, RAG, LangChain, and multi-API pipelines** — integrating Gemini, Pexels, GitHub, and Pinecone to build systems that do real work end-to-end. On the full-stack side I'm comfortable across React/Next.js, Django/Flask/Node, and PostgreSQL/MongoDB. I care about **clean code, observable systems, and writing software that's easy to hand off** — and I'm looking for a team where those things matter too.

## TECHNICAL SKILLS

<b>AI / Agent Systems:</b>	LLMs, RAG, LangChain, Tool Calling, Structured Outputs, Vector Embeddings, Pinecone, TF-IDF, Cosine Similarity, Prompt Engineering, Semantic Search, OpenAI API, Google Gemini API, n8n Workflow Automation, Edge TTS, Multi-API Integration
<b>Frontend Development:</b>	React.js, Next.js 16, TypeScript, JavaScript (ES6+), TailwindCSS, Bootstrap, HTML5, CSS3, Responsive Design, UI/UX (Figma), Astro, SSR / SSG, PostCSS, ESLint
<b>Backend Development:</b>	Django, Flask, Node.js, Express.js, REST APIs, GraphQL, Gunicorn, WhiteNoise, Session Management, JWT, Flask-Mail, python-dotenv
<b>Data &amp; ML:</b>	Scikit-learn, TensorFlow, PyTorch, XGBoost, Neural Networks, Pandas, NumPy, Matplotlib, SHAP, Jupyter Notebook, Feature Engineering, EDA, Hyperparameter Tuning
<b>Databases:</b>	PostgreSQL, MongoDB, MySQL, Firebase, Supabase, SQLite, Pinecone (Vector DB), PyMongo
<b>DevOps &amp; Tools:</b>	Docker, Git/GitHub, CI/CD, Vercel, Render, Railway, AWS, Netlify, FFmpeg, MoviePy, Linux, Postman
<b>Languages:</b>	Python, TypeScript, JavaScript, SQL, Java, HTML/CSS

## PROJECTS

### RAG-Powered Personal Portfolio with Semantic Search

Next.js 16 · TypeScript · React · Pinecone · LLM APIs · TailwindCSS · Vercel — Live: [krishna-portfolio-ten.vercel.app](https://krishna-portfolio-ten.vercel.app) | GitHub: [KrishnaJadhav2525](https://github.com/KrishnaJadhav2525)

- Architected full **RAG pipeline**: document ingestion → vector embeddings → Pinecone similarity search → LLM response synthesis, enabling natural-language querying of portfolio content.
- Built with Next.js 16 SSR + TypeScript; sub-second response times via **optimised vector search and caching**; automated CI/CD on Vercel.
- Designed end-to-end conversational loop: user intent → contextual retrieval → grounded answer — a complete **agentic information retrieval system**.

### ResumeFit – AI Resume-Job Description Matcher

Django · Python · Scikit-learn · TF-IDF · PostgreSQL · PyMuPDF · Gunicorn · Render — GitHub: [KrishnaJadhav2525/ResumeFit](https://github.com/KrishnaJadhav2525/ResumeFit) | Deployed on Render

- Built **NLP analysis engine** (TF-IDF + cosine similarity) producing 0–100% match scores with gap analysis surfacing missing skills and actionable recommendations.
- PDF parsing pipeline (PyMuPDF) + **regex skill-extractor** identifying 100+ technical/soft skills; singleton vectorizer init for low-latency inference.
- PostgreSQL schema with **history tracking**; /health/ monitoring endpoint; Gunicorn + WhiteNoise deployment on Render with dark-mode score visualisation UI.

### Financial Transaction Fraud Detection System

Python · Scikit-learn · XGBoost · Neural Networks · Pandas · Matplotlib · Jupyter Notebook — Internship Project | 6.3M+ Records Dataset

- End-to-end ML pipeline on 6.3M+ records — EDA, class-imbalance handling, 15+ engineered features, multi-model training across Logistic Regression, Random Forest, **XGBoost**, and **Neural Networks**.

- Achieved **94% precision / 89% recall**, AUC 0.96 via GridSearchCV; surfaced top-10 fraud factors with SHAP; proposed KPI framework for production monitoring.

## AI Video Automation Pipeline

Python · Google Gemini API · Edge TTS · Pexels API · MoviePy · FFmpeg · n8n — GitHub: KrishnaJadhav2525/ai-video-automation | Demo: youtube.com/watch?v=niRQ15b8u2s

- Built a **fully automated multi-API pipeline**: one topic in → YouTube-ready 1080p MP4 out — script generation, voiceover synthesis, visual sourcing, and video assembly with no manual steps.
- Orchestrated with **n8n** (importable JSON workflow): Manual Trigger → Set Topic → Execute Command; Gemini generates structured JSON scripts, Edge TTS produces voiceover, Pexels API sources HD visuals.
- Assembled with **MoviePy + FFmpeg** (Ken Burns effect, H.264/AAC, 24fps, 5000 kbps); auto-generates thumbnail, SRT subtitles, and YouTube SEO metadata as bonus outputs.

## RepoSense – AI-Powered GitHub Repository Analysis Tool

Next.js · TypeScript · React · GitHub API · Vercel — Live: repo-sense-ten.vercel.app | GitHub: KrishnaJadhav2525/RepoSense

- AI analysis engine extracting insights and metrics from repository structure via **GitHub API integration**; full Next.js SSR app with TypeScript, automated Vercel deployments, and ESLint enforcement.

## College Web Portal – Full-Stack Management System

Flask · MongoDB · PyMongo · Flask-Mail · Python · HTML/CSS — GitHub: KrishnaJadhav2525/College\_Web\_Portal\_Full-Stack

- Flask backend with **auth, session management, approval workflows**, and role-based admin panel (blogs, events, gallery, notifications); MongoDB + JSON fallback for resilience; Flask-Mail notification pipeline.

## PROFESSIONAL EXPERIENCE

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### Database Support & IT Support Specialist | Kohinoor Ropes Pvt Ltd, Maharashtra

May 2025 – August 2025

- Executed 100+ complex MySQL queries for data retrieval, validation, and reporting; maintained **99.5% data accuracy** across production databases.
- Database optimisation, backup procedures, and data integrity checks; documented workflows in a technical **knowledge base** used by the broader IT team.
- Provided technical support to 50+ users (remote + on-site); 2-hour avg. response time; reduced system downtime by 25%.

### Business Development Executive | Conglomerate Magazine, Latur, Maharashtra

August 2024 – February 2025

- Generated 30+ qualified leads/month via Excel-based CRM (95% follow-up rate); contributed to a **20% conversion increase** through structured lead handoff and weekly performance reporting.

## EDUCATION

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### Bachelor of Science in Computer Science — Rajarshi Shahu Mahavidyalaya, Latur, Maharashtra

Expected Graduation: 2026 | CGPA: 7.53/10.0 | Coursework: Data Structures, Algorithms, DBMS, OS, Networks, OOP, AI, ML, Web Development

### Higher Secondary Certificate (XII) – Science Stream — Maharashtra State Board | 2023 | 66.83%

Secondary School Certificate (X) — Maharashtra State Board | 2020 | 87.60%

## CERTIFICATIONS & TRAINING

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### NPTEL Online Courses – Indian Institutes of Technology (IIT) | August 2024 – Present

Pursuing advanced certifications in Machine Learning, Deep Learning, Data Structures, and Modern Web Technologies.

## LANGUAGES

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Marathi (Native) | Hindi (Fluent) | English (Professional Working Proficiency)