

# RIJIN SHAJI

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## PROFESSIONAL SUMMARY

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AI & Machine Learning Engineer with hands-on experience building LLM-powered applications, RAG systems, and semantic search pipelines. Skilled in Python, Hugging Face, FAISS, and Generative AI (LLMs, Prompt Engineering). Proven ability to design end-to-end AI pipelines—from data ingestion and embedding generation to model deployment—delivering scalable, production-ready solutions.

## TECHNICAL SKILLS

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**AI/ML:** Machine Learning, Deep Learning, Generative AI (LLMs), NLP, RAG, Prompt Engineering, Semantic Search, Text Classification, Embeddings, CNNs, RNNs, Transformers

**Languages & Libraries:** Python, SQL, NumPy, Pandas, Scikit-learn, TensorFlow, Hugging Face, FAISS, Sentence-Transformers, Matplotlib

**Tools & Platforms:** GROQ API (LLaMA 3.3), Git, AWS (Basic), MySQL, Tableau, Jupiter Notebook, Google Colab

**Core Skills:** Feature Engineering, EDA, Predictive Modeling, Model Evaluation & Optimization, Embedding-Based Retrieval, Cross-Functional Collaboration, Stakeholder Communication

## PROFESSIONAL EXPERIENCE

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**GenAI Engineer** | *Coderzon* | Aug 2025 – Present

- Built LLM-powered applications using LLaMA 3.3 via GROQ API for resume analysis, document understanding, and intelligent query handling.
- Designed and implemented embedding-based semantic search pipelines using Hugging Face models and FAISS for high-accuracy information retrieval.
- Developed Retrieval-Augmented Generation (RAG) systems for enterprise use cases including banking document analysis and policy-compliant Q&A.
- Implemented resume–job matching logic combining semantic similarity scoring and rule-based ranking to improve relevance over keyword-based methods.
- Structured modular AI pipelines separating data ingestion, embedding generation, retrieval, and LLM prompting for scalability and maintainability.
- Conducted LLM output evaluation focusing on relevance, consistency, and hallucination reduction.

**Robotics & Automation Engineer** | *Pacific Weld Systems Pvt. Ltd., Chennai* | Aug 2023 – Aug 2024

- Installed and commissioned industrial robotic and PLC-based systems across manufacturing environments, ensuring stable production-ready deployments.
- Executed end-to-end system integration including calibration, signal mapping, and controller configuration for robotic automation systems.
- Diagnosed and resolved system-level failures including communication faults, control logic issues, and hardware–software mismatches.
- Applied engineering problem-solving and debugging methodologies transferable to large-scale AI system troubleshooting.

## KEY PROJECTS

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**AI-Powered Job Matching Platform** | **LLM-Based GenAI Application**

- Integrated LLaMA 3.3 via GROQ API for structured resume analysis and job description understanding.
- Implemented embedding-based similarity search using Hugging Face models to match resumes and job postings semantically.
- Automated extraction of skills, experience, and qualifications from unstructured text using NLP preprocessing pipelines.
- Designed a relevance scoring and ranking mechanism to recommend suitable candidates to recruiters and relevant jobs to applicants.

### **Enterprise RAG System (Banking) | Team Lead – Agentic AI Project**

- Designed end-to-end RAG pipeline covering document ingestion, embedding generation, FAISS vector retrieval, and LLM-based response generation.
- Implemented document vectorization using Sentence-Transformers (all-MiniLM-L6-v2) with FAISS for low-latency semantic retrieval.
- Integrated LLaMA 3.3 70B via GROQ API to generate grounded, context-aware responses for KYC validation, fund transfer policies, and compliance queries.
- Implemented document metadata handling and restricted access controls to support enterprise-grade security.

### **Facial Expression Recognition System | Computer Vision Application**

- Developed a real-time emotion classification system using MobileNetV2-based CNN with transfer learning.
- Built a live prediction pipeline enabling real-time facial expression detection from camera feeds.
- Balanced model accuracy and inference speed to support real-time usage on limited hardware.

## **EDUCATION**

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**B.Tech in Robotics and Automation** | Jain University, Bengaluru, India | 2019 – 2023

## **ACHIEVEMENTS & ACTIVITIES**

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- Led and contributed to multiple hands-on AI and GenAI projects demonstrating practical application of ML and LLM-based techniques.
- Conducted peer learning sessions and technical mini-classes on ML, NLP, and GenAI topics, supporting team knowledge sharing.
- Independently explored emerging AI and GenAI technologies through self-study and experimentation beyond formal project requirements.