

# VIKAS PASPULA

AI Engineer — Full-Stack Developer (LLMs • RAG • Cloud-Native Systems)

Hyderabad, Telangana

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## PROFESSIONAL SUMMARY

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AI Engineer with hands-on experience in designing, fine-tuning, and deploying LLM-powered systems, RAG pipelines, and cloud-native full-stack applications. Proven ability to integrate NLP models into production environments using Python, PyTorch, LangChain, Docker, and CI/CD pipelines. Experienced in scalable AI microservices, semantic search, and enterprise-grade deployment across education, HR tech, and conversational AI domains.

## EDUCATION

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### Mahindra University

*Master of Engineering in Artificial Intelligence and Data Science*

*Aug 2019 – Jun 2021*

Hyderabad , Telangana

*CGPA: 7.60%*

### Sreenidhi Institute of Science and Technology

*Bachelor of Engineering in Computer and Electronics Engineering;*

*Jun 2015 – Jun 2019*

Hyderabad, Telangana

*CGPA: 7.24%*

### Narayana Junior College

*July 2013 – May 2015*

Senior Secondary (XII);

*CGPA: 8.63%*

## EXPERIENCE

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### Gen AI Developer

*Chandigarh*

Cipher Schools

*Jun 2023 – Present*

- Designed and fine-tuned lightweight LLMs (CodeLLaMA, StarCoder) to detect AI-generated code using semantic embeddings and stylistic analysis.
- Built classifiers combining behavioral metadata and transformer embeddings, outperforming traditional ML approaches in code authorship detection.
- Optimized LLM inference pipelines for scalability and cost efficiency in production environments.

### AI Engineer

*Hyderabad*

Tech Mahindra

*Nov 2021 – Jun 2023*

- Developed an AI-driven resume screening system that automated 80% of manual candidate matching using NLP and semantic similarity.
- Implemented transformer-based QA systems using dense vector search for enterprise knowledge retrieval.
- Designed ethical, multi-turn conversational workflows with explainability and prompt-safety constraints.

### AI Engineer

*Hyderabad, Telangana*

Ineuron

*Feb 2019 – Oct 2021*

- Built end-to-end AI/ML applications covering supervised and unsupervised learning pipelines.
- Developed RESTful backend services with PostgreSQL to support multi-user data access and scalable transactions.
- Collaborated on deploying ML models into production-ready web applications.

## PROJECTS

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### Enterprise AI Job Portal with Resume Intelligence

- Built a full-stack job portal using React, Spring Boot, and PostgreSQL with authentication and role-based access.
- Integrated NLP-based resume parsing to extract 10–15 key skills per profile, automating candidate-job matching.
- Deployed frontend on Vercel and backend on Render with Dockerized services and CI/CD workflows.

### Cloud-Native AutoML Platform

- Designed a scalable AutoML pipeline supporting PostgreSQL, MySQL, and MongoDB data sources.
- Implemented preprocessing, model evaluation, and reporting with accuracy and confusion-matrix metrics.

### Context-Aware Conversational AI System (RAG)

- Built an LLM-powered chatbot using LangChain, FAISS, and ChromaDB for contextual retrieval.
- Designed secure, multi-turn conversational flows with explainable AI responses.

### Photo-Realistic Image Super-Resolution (SRGAN)

- Implemented SRGAN using PyTorch to enhance low-resolution images.
- Evaluated model performance using PSNR and SSIM, with applications in medical imaging and surveillance.

## SKILLS

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**Programming:**Python, Java,C++,OOPs,DSA

**AI Agent Development:**Agentic AI, RAG, LangChain, Tool-Calling Agents, Vector Indexing (FAISS/ChromaDB), Conversational AI, Multi-Turn Dialogue

**Google AI Ecosystem:**Vertex AI (AutoML-style workflows, RAG, Evaluation), Gemini Enterprise-style conversational orchestration, Cloud deployment patterns for AI workloads

**Natural Language Processing:**BERT,LSTM, GRU, Transformers, Attention, RAG

**Backend:** FastAPI/Django/Spring Boot, REST APIs, JWT Authentication

**MLOps / ML frameworks:** PyTorch, TensorFlow, Scikit-learn

**Databases:** PostgreSQL, MySQL, MongoDB

**DevOps / Tools:** Docker, CI/CD, Git/GitHub

**Languages:** Telugu (Native), English (Professional), Hindi