

# Jignesh Shiyal

Email: jignesh.shiyal1122@gmail.com  
Mobile: +91-9106762544

LinkedIn: jigneshshiyal  
GitHub: jigneshshiyal  
Portfolio: jigneshshiyal.github.io

## SUMMARY

- Data Scientist with **3 years** of experience building production-grade **LLM systems, agentic workflows, and multimodal RAG pipelines**. Specialized in **LangChain, LangGraph, MCP, Whisper, CLIP, embedding systems, chunking strategies, and multi-agent orchestration**. Strong expertise in deploying scalable AI systems using **FastAPI, Docker, Kubernetes, AWS**, and optimizing inference for latency and cost.

## SKILLS SUMMARY

- **Programming:** Python, SQL, JavaScript
- **LLM & Agents:** LangChain, LangGraph, AutoGen, MCP, Multi-Agent Systems, Prompt Engineering
- **RAG Systems:** Chunking Strategies, Hybrid Retrieval, CLIP, Whisper, ChromaDB, BM25, Embedding Pipelines
- **ML & DL:** Transformers, CNNs, Whisper, ONNX Runtime, CTranslate2
- **Backend:** FastAPI, WebSockets, Streamlit, Microservices, RabbitMQ
- **Cloud Infra:** AWS (EC2, EKS, S3), Docker, Kubernetes, Grafana, Loki

## EXPERIENCE

- **Intellect Design Arena** India  
*Consultant (Product Engineer) – GenAI (Purple Fabric Team)* Dec 2025 – Present
  - **Core LLM Infrastructure:** Working on **Purple Fabric GenAI platform**, contributing to core LLM capabilities including **chunking strategies, document ingestion pipelines, embedding workflows, and retrieval optimization**.
  - **Multi-Agent System Development:** Building **multi-agent orchestration systems** for enterprise banking workflows using LangGraph and internal agent frameworks, enabling autonomous task execution and reasoning.
  - **Platform Support & Optimization:** Providing production support for GenAI services, improving stability, reducing latency, and optimizing cost for large-scale enterprise deployments.
- **Credify Technologies Private Limited** India  
*Data Scientist* Jan 2024 – Dec 2025
  - **LLM Repayment Support Agent:** Built an LLM-powered repayment assistant using LangChain, LangGraph, MCP, and Razorpay API, reducing customer support load by **45%**.
  - **AI-driven Bank Statement Engine:** Developed a **Table Transformer + DistilBERT**-based extraction engine achieving **4× faster processing** and **35% cost reduction** by removing third-party APIs.
  - **Real-time KYC Face Match:** Implemented CNN + **Mediapipe** based identity verification system with **25% accuracy improvement** and **40% faster inference**.
  - **Video-Audio Compliance AI:** Designed **Whisper + face recognition** pipeline with real-time compliance validation, improving latency **2×** and accuracy **20%**.
- **Cybercom Creation India** India  
*Software Engineer* Aug 2023 – Jan 2024
  - **Demand Forecasting & Product Matching:** Designed **time-series forecasting** and image-based product matching pipelines (MobileNet, InceptionNet), improving inventory accuracy by **30%**.
  - **Large-scale Image Similarity System:** Built CLIP/ViT/EfficientNet embedding pipelines with **PySpark** parallelization and FAISS-based similarity search for millions of images.
- **Cybercom Creation India** India  
*Software Engineer Intern* Feb 2023 – Aug 2023
  - **Event Management Platform:** Built Django + JavaScript event platform with Razorpay payment integration.

## PROJECTS

- **MultiModel-RAG:** Production-ready multimodal RAG system (text, audio, images, video) using CLIP, Whisper, FastAPI, and ChromaDB. **GitHub Link**
- **Advanced-RAG:** Hybrid retrieval (Semantic + BM25 + MMR) with cross-encoder reranking and Gemini integration. **GitHub Link**
- **FACEKYC:** Browser-based KYC verification using Mediapipe with real-time selfie guidance. **GitHub Link**
- **SMARTRESUMEAGENT:** ATS-aware multi-agent resume optimization using LangChain, FastAPI, ChromaDB, and LangFuse. **GitHub Link**
- **FASTTUNEWISPER:** Fine-tuned Whisper with CTranslate2 optimization, reducing WER by **50%**. **GitHub Link**

## EDUCATION

- **Government Engineering College Bhavnagar** Gujarat, India  
*Bachelor of Engineering (CGPA: 8.7/10)* July 2019 – July 2023

## ACHIEVEMENTS

- AZADI KA AMRIT MAHOTSAV HACKATHON – 2022