

ABISHEK GOKUL V

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SUMMARY

AI Engineer with hands-on experience building multi-agent AI systems, RAG pipelines, and automation workflows. Skilled in Python and FastAPI, with practical exposure to LLMs, prompt engineering, computer vision, and object detection. Focused on building reliable, production ready AI solutions end-to-end.

EXPERIENCE

RDX Digital Technologies

AI/ML Developer

Coimbatore

July 2025 – April 2026

Blog Agent – Multi Agent AI Content Automation Pipeline

- Built a production ready 7 agent content automation pipeline for tagline.wtf (textile industry news & founder stories platform) handling daily blog scheduling, industry event tracking with deduplication, and on demand company success story generation; fully completed and handed off at deployment stage.
- Model-agnostic LLM routing (Claude, Gemini, Groq, OpenRouter) with fallback chains and retry/backoff; served via FastAPI HTTP triggers, APScheduler cron, CLI, and SSE run-status streaming.

Customer Support & Field Engineer Tracking Backend

- Built a production FastAPI backend serving 12 field engineers and 30 customers real-time GPS tracking for proximity-based ticket assignment, full ticket lifecycle management, salary-relevant attendance logging, and machine-customer ownership records with admin controls for engineers, customers, and machines.
- n8n + WhatsApp workflow for end-to-end support intake: customer verification, LLM classifier, machine ID validation agent, ticket extraction, and ONNX nozzle image classifier; geospatial engineer tracking with FCM push notifications and APScheduler background jobs.

Other Work

- Built a fabric defect detection MVP using YOLOv5 and YOLOv8 collected and labelled images from live factory machines across 8 defect categories, cleaned and structured a large-scale training dataset; demo approved by CEO and greenlit for full production training.
- Developed a FastAPI backend for a customer-facing Purchase Order portal for ink procurement, handling request validation and data management.
- Crafted system prompts and fine-tuned LLM instructions for Ardix.ai, a generative AI textile design platform, optimizing outputs for pattern generation, color recommendation, and design iteration.

PERSONAL PROJECTS

Automated Deep Research Assistant

- Designed a multi-stage deep research pipeline query enhancement, source discovery, summarization, and self-critique using Groq Llama 3.3.70B with Serper, Semantic Scholar, and arXiv APIs; async scraping with FAISS indexing produces structured, citation backed research reports end to end.

Simple Local RAG (Retrieval-Augmented Generation)

- Built a local RAG system in Python document ingestion, chunking, vector similarity search, and LLM grounded answer generation demonstrating hallucination reduction versus standard LLM responses.

EDUCATION

SNS College of Technology

B.Tech in Artificial Intelligence & Machine Learning - CGPA: 8.1/10

Coimbatore, Tamil Nadu

2021 – 2025

SKILLS

Technical: Python, FastAPI, SQL, Git, n8n, FAISS, LangChain, RAG, Multi-Agent Systems, LLMs, Prompt Engineering, Machine Learning, NLP, Computer Vision, YOLOv8

Tools: Anthropic Claude, Gemini, Groq, OpenRouter, LiteLLM, Tavily, sentence-transformers, BeautifulSoup, Streamlit, Gradio, APScheduler