Nithin Babu B R

GENERATIVE AI ENGINEER | LLM & AGENTIC AI DEVELOPER

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SUMMARY

Generative AI and software engineer focused on building LLM-powered applications, retrieval-augmented generation (RAG) systems, and agentic workflows. Experience spanning Python/Django backend development, REST API integration, data processing, machine-learning-based text analysis, and AI workflow validation. Familiar with prompt engineering, embeddings, vector search, structured output evaluation, tool integration, and reliability testing. Seeking to build production-oriented GenAI solutions with grounded responses, measurable quality, and maintainable backend services.

SKILLS

Technical: Python, SQL, Django, HTML5, CSS3, JavaScript, TypeScript, React, Node.js, Express, Pandas, Numpy, EDA, Scikit-Learn, RAG, vector databases, LangChain, LangGraph, LLM Application Development, Tokenization, Embeddings, System Prompt Design, model quantization, FastAPI, Generative AI, Test Automation, Agentic AI, Multi-Agent Systems, Text-to-SQL, BLEU, ROUGE, MCP, A2A, opencv, ocr, computer vision

Tools & Technologies: Git, GitHub, VS Code, Supabase, PostgreSQL, RESTful APIs, Vite, Docker, Kubernetes, MongoDB, Linux, AWS

Soft Skills: Problem-Solving, Cross-Functional Team Collaboration, Technical Documentation, Leadership, Analytical Thinking, Communication

EXPERIENCE

Software Developer Jul 2025 – Jun 2026

Wadi Al Ain Documents Clearing Services · *Dubai*

- Automated invoice tracking and a 3-stage payment-reminder workflow, targeting a 40% reduction in manual follow-up effort through structured payment tracking and automated reminders.
- Developed components of an agentic grant-monitoring system using Python and browser automation to collect opportunities, track deadlines, and assess eligibility across 5+ funding sources.
- Validated backend APIs, data-processing logic, input handling, and SQL operations using Python and Django; investigated defects and verified fixes.
- Tested multi-step processing workflows for data consistency, failure handling, and reliable execution across integrated application components.

Data Science Associate Mar 2025 – Jun 2025

Ladder7 Nextstep Solutions LLP · *Trivandrum*

- Developed and evaluated a multi-document RAG research assistant using LLMs, embeddings, vector search, and retrieved-context grounding.
- Designed evaluation scenarios to assess generated responses for relevance, correctness, faithfulness, consistency, and potential hallucinations.
- Applied prompt refinement and LLM-as-a-Judge evaluation concepts alongside embedding similarity, BLEU, and ROUGE to assess output quality.
- Integrated and tested AI workflows through REST APIs and Dockerized services, validating request handling, response structure, and component interoperability.

Data Science Intern Dec 2024 – Feb 2025

First Quadrant Labs · *London*

- Analysed 57,391 cleaned software reviews to identify recurring customer pain points, sentiment patterns, and product feedback themes.
- Built text-classification and topic-discovery workflows, achieving 82.94% accuracy with a logistic regression baseline for emotion classification.
- Developed an interactive dashboard with issue-level evidence, product comparisons, and prioritization signals for product managers.
- Implemented CSV ingestion with validation, duplicate detection, import logging, and reusable model artifacts for incremental review analysis.

EDUCATION

Kerala University 2022 – 2024

Master of computer Applications · 7.68

CERTIFICATIONS

Complete 2023 Web Development Bootcamp by Angela Yu · *Udemy* · Mar 2023

100 Days of Code: The Complete Python Pro Bootcamp · *Udemy* · Aug 2024

ICGAIFE2.0 offline · *IHRD* · Dec 2024

Python and Machine Learning Bootcamp · *DevTown* · May 2023

LANGUAGES

English (Fluent) · Malayalam (Native) · Hindi (Fluent)