

PRIYABRAT DALBEHERA

GenAI Engineer | AI Systems | LLM Solutions | Multi-Agent Architectures

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PROFESSIONAL SUMMARY

GenAI Engineer with **3.5+ years** of production experience architecting multi-agent systems, RAG pipelines, and NL-to-SQL analytics platforms. Shipped production AI systems at scale — processing 300K+ rows of airline operational data, delivering executive KPI dashboards, and implementing multi-layer guardrail architectures that eliminate hallucinations in SQL generation. Expert in **LangGraph, LangChain, FastAPI, Docker**, and vector databases. Seeking high-impact AI engineering roles in product-based companies.

CORE TECHNICAL SKILLS

AI / Agents	LangGraph, LangChain, CrewAI, OpenAI GPT-4o, Groq LLM
RAG / Vector DB	FAISS, ChromaDB, Embeddings, Semantic Search, RAG Pipelines
NL-to-SQL	DuckDB, Schema-Aware SQL Generation, Query Rewriting, Guardrails
Programming	Python (Advanced), SQL (Advanced), Pandas, ETL Pipelines
Frameworks	FastAPI, Flask, Pydantic
DevOps / Tools	Docker, Git, GitHub
Concepts	Multi-Agent Orchestration, Prompt Engineering, Guardrail Frameworks, Evaluation & Benchmarking, Forecasting

PROFESSIONAL EXPERIENCE

Senior Software Engineer – GenAI & AI Systems

Aug 2023 – Present

Anxilla Technologies Pvt. Ltd. | Bengaluru, India

- Architected production **NL-to-SQL analytics engine** using **LangGraph + DuckDB** — 3-agent pipeline (query rewriting, SQL generation, AI summarization) delivering executive-level KPI reporting across Revenue, Load Factor, and Yield for airline operations
- Designed and implemented **multi-layer guardrail framework** — input sanitization, schema-aware SQL validation, output filtering — eliminating hallucinations in SQL generation and enabling safe, accurate executive reporting
- Optimized **LangGraph pipeline performance** through async streaming and result caching, significantly reducing p95 latency and improving system throughput for real-time business analytics queries
- Built **Finance AI Agent** — 4-agent autonomous investment system (Bull, Bear, Risk Analyst, CIO Decision Maker) using **LangGraph + Groq LLM** with real-time Yahoo Finance and SEC filings integration and human-in-loop PDF report generation
- Integrated **OpenAI GPT-4o and Groq LLMs** with **FAISS and ChromaDB** vector stores for semantic search across 300K+ rows of airline operational data
- Delivered AI-generated business summaries for C-suite stakeholders — translating complex airline analytics into actionable insights across Revenue, Passengers, Load Factor, and Yield dimensions

Software Engineer – AI/ML Systems

Jun 2022 – Aug 2023

Revemax (Rebranded to Anxilla Technologies Pvt. Ltd.) | Bengaluru, India

- Engineered **4 KPI analytics pipelines** in Python + Pandas + SQL Server processing **300K+ rows** of airline data — Revenue, Passengers, Load Factor, Yield — with Current vs Last Year vs Target benchmarking for pricing and revenue strategy teams
- Designed and maintained **ETL pipelines** with robust preprocessing and feature engineering, improving data reliability and consistency across downstream analytics and reporting systems
- Built **AI Content Automation System** — end-to-end pipeline scraping, rewriting, and publishing SEO-optimised job content to WordPress autonomously using Python and AI APIs, eliminating manual content workflows
- Automated reporting workflows reducing manual reporting overhead for pricing and revenue strategy teams, accelerating business decision-making cycles
- Delivered forecasting analytics comparing Current vs Last Year vs Target performance, enabling data-driven decisions for airline pricing strategy

KEY TECHNICAL PROJECTS

NL-to-SQL Airline Analytics Engine

Tech: Production | LangGraph, DuckDB, FAISS, OpenAI/Groq, FastAPI, Docker

- Built domain-aware NL-to-SQL system for airline analytics with 3-agent pipeline: query rewriting, SQL generation, and AI-powered executive summarization
- Implemented schema-aware guardrails for safe SQL generation; integrated FAISS-based semantic search for route, POS, and agent-level intelligence

Finance AI Agent — Multi-Agent Investment System

Tech: LangGraph, Groq LLM, Python, Yahoo Finance API, SEC Filings

- Designed 4-agent autonomous investment analysis system: Bull Agent, Bear Agent, Risk Analyst, and CIO Decision Maker with structured debate and consensus
- Integrated real-time financial data (Yahoo Finance, SEC filings); generated professional PDF investment reports with human-in-loop approval workflow

AI Content Automation System

Tech: Python, AI APIs, Web Scraping, WordPress REST API

- Built fully automated pipeline — scrape, clean, AI-rewrite, and publish SEO-structured job content to WordPress without manual intervention
- Implemented scheduling and publishing automation, eliminating manual content creation workflows entirely

EDUCATION

M.Tech – Computer Science

2019 – 2021

Odisha University of Technology and Research (OUTR), Bhubaneswar

B.Tech – Engineering

2014 – 2018

Parala Maharaja Engineering College (PMEC)

DELIVERY HIGHLIGHTS

AI/GenAI Engineering	Live & Serving Users	Airline Data Processed	LangGraph Orchestration
FAISS & ChromaDB	Hallucination Control	OpenAI GPT-4o, Groq	LangGraph, LangChain, CrewAI