

# AKASH KATTE

AI & Generative AI Consultant | Cloud Deployment Expertise | Machine Learning Specialist

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## SUMMARY

AI & Generative AI Engineer with hands-on experience designing, building, and deploying scalable LLM-powered solutions, including RAG systems, NL2SQL pipelines, and AI-driven agents. Skilled in Python, LangChain, TensorFlow, PyTorch, and cloud platforms (AWS/Azure/GCP). Experienced in vector databases, LLM evaluation, prompt engineering, and data preprocessing for enterprise-grade AI. Strengthened applications by integrating 5+ AI agents and deploying production-ready AI services. Eager to contribute to Deloitte's Digital Internal Audit team by developing AI-led risk, analytics, and automation solutions that enhance audit efficiency and decision-making.

## EDUCATION

Bachelor of Technology (B.Tech)

**SKN Sinhgad College of Engineering - 9.62 CGPA**

08/2022 - 06/2026 Karti, Pandharpur

Higher Secondary Certificate (HSC)

**M.V. High School and Junior College - 75.67%**

06/2021 - 05/2022 Umadi, India

Secondary School Certificate (SSC)

**Bharat High School and Junior College - 88.80%**

06/2019 - 05/2020 Utagi, India

## EXPERIENCE

Intern as Python Backend Developer

**Rezoomex**

08/2025 - 09/2025

Focused on Production level Backend development using python

- Designed and deployed backend microservices using **Flask, FastAPI, Django** for production-level AI pipelines.
- Built an end-to-end **RAG system** integrating Sentence Transformers + ChromaDB + LLM inference.
- Automated data cleaning, preprocessing, and ETL workflows, reducing manual effort **40%**.
- Implemented **REST APIs** for scalable AI and data operations.

Trainee GenAI Engineer

**Pathways to Parenthood**

10/2025 - Present

Gives the solutions to who want to be a future parent.

- Built and deployed **AI-driven agent systems** using LLMs (GPT-4.1, Gemini), improving software automation by **20%**.
- Developed **custom GenAI pipelines** including retrieval, context management, and prompt engineering for real-world applications.
- Integrated **5+ AI agents** into production systems, enhancing decision automation and workload efficiency.
- Worked with **RAG architectures, embeddings, vector search**, and multi-step reasoning pipelines.
- Collaborated with teams to translate business requirements into **LLM-driven automation specifications**.

## SKILLS

Machine Learning	GenAI	Deep Learning	AI Tool Handling	NLP	Django
FLASK	RESTAPI	MYSQL	Python	Large Language Model	React
Node.js	MongoDB	Internal Audit	AWS	Azure	GCP
TensorFlow	PyTorch	Keras	Risk Management		Critical Thinking
Decision-Making	Continuous Learning	Interpersonal Skills		Leadership	
Langchain					

## CERTIFICATION

**Introduction to Data Science**

CISCO | 2025

**AWS**

Intellipaat | 2025

**Python**

HackerRank and Kaggle | 2025

**Machine Learning and Generative AI**

Gradious | 2025

**100 Days of Python Coding**

TalentBattle | 2024

**Getting Started with Enterprise Data Science**

IBM | 2023

**Power BI and Data Analytics**

VOIS Edunet Foundation | 2023

## PROJECTS

**GENAI Powered RAG Tutoring System**

07/2025 - 08/2025

Developed a full-stack RAG application allowing natural language queries on CSV data. The Python/Flask backend uses Sentence Transformers for embeddings, Chroma DB for vector storage, and Google Gemini to generate accurate, source-attributed answers.

- Designed full-stack **RAG architecture** using Sentence Transformers, Google Gemini, and ChromaDB.
- Implemented **data preprocessing**, document chunking, embedding pipelines, and retrieval evaluation.
- Built interpretable, audit-friendly responses with **source attribution**, improving trust and transparency.

**GENAI Powered NL2SQL system**

07/2025

Built a Natural Language to SQL (NL2SQL) system using Python and Open AI GPT-4.1. Implemented a semantic search retriever with Sentence Transformers to provide the LLM with dynamic, context-aware few-shot examples, resulting in highly accurate SQL generation and step-by-step reasoning.

- Built an LLM-driven **Natural Language → SQL** agent using GPT-4.1 with semantic search based few-shot examples.
- Designed robust data pipeline with **retrievers, context engines, and validation checks**.
- Improved query accuracy using **dynamic RAG-based prompt construction**.
- Evaluated LLM responses using accuracy, consistency & execution success metrics.

## TRAINING / COURSES

**Machine Learning and Generative AI**

(Gradious | 03/2025 to 09/2025)

Completed intensive training in Machine Learning and Generative AI from Gradious, covering topics from foundational algorithms to advanced Large Language Models.