

# SIDHARTHA MOHANTY

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## PROFILE SUMMARY

Machine Learning Engineer with 6 years of experience in building ML models. Skilled in Python, SQL, and end to end ML workflows, specializing in NLP and responsible AI driven solutions.

## EXPERIENCE

### Software Engineer 2, Stefanini, Pune, India

May-2025 - Present

- Built an intelligent monitoring agent that queries platform metrics and provides automated troubleshooting steps for user issues.
- Reduced mean time to resolution (MTTR) by enabling automated root cause analysis across platform and services.
- Applied context engineering and routing strategies to dynamically select the appropriate agent node and operational tools.
- Led A/B testing on agent variants by tuning prompts and runtime parameters to compare performance.
- Implemented structured logging and observability for agent decisions and tool executions to improve debuggability.
- Integrated a RAG pipeline over internal technical wikis, error logs, and historical incident resolutions to ground agent responses.
- Developed dashboards to track LLM API call traces, detect anomalies, and identify performance or reliability issues.
- Implemented responsible AI principles by adding guardrails and fallback logic to prevent unsafe or incorrect operational guidance.

### Unit Manager, Bajaj Finserv, Pune, India

Dec-2021 - May-2025

- Collaborated with data engineers to design data pipelines, ensuring data quality and readiness for large scale model training.
- Integrated ML models into production environments using MLflow and Docker, enabling versioned deployments and experiments.
- Monitored model performance post-deployment and coordinated retraining strategies to handle data drift and performance.
- Worked closely with business stakeholders to translate problem statements into measurable ML objectives and evaluation metrics.
- Communicated model insights and trade offs through visualizations and presentations to support data-driven decision-making.

### Advisor, Concentrix, Bengaluru, India

Feb-2020 - Dec-2021

- Performed EDA using Pandas, NumPy, Matplotlib, and Seaborn to identify trends, anomalies, and data quality issues.
- Built PowerBI dashboards to track business performance metrics and support operational decision-making.
- Applied NLP techniques for sentiment analysis on customer chat data to extract qualitative insights.
- Conducted data validation and quality checks to ensure accuracy and completeness of analytical datasets.
- Verified data accuracy and completeness through data quality checks.

## PROJECTS

**Ops Agentic System:** Designed and implemented an agent based observability system using langgraph that continuously monitors Azure metrics and logs using MCP for standardized tools. The system correlates signals across services, performs automated root cause analysis, and assists the Ops team in faster incident diagnosis and resolution. **Tech Stack:** Python, LangGraph, Langchain, Azure Monitor, Azure Log Analytics, Azure MCP, OpenAI API, FastAPI, Docker.

**RAG Based Technical Support System:** Developed a RAG system that integrates company technical documentation with production error logs and prior incident resolutions. The solution retrieves contextually relevant knowledge to support root-cause analysis, accelerate troubleshooting, and reduce Ops team intervention. **Tech Stack:** Python, LangChain, OpenAI API, SentenceTransformers, FAISS, FastAPI, Docker, Azure.

**Agentic Knowledgebase Search System:** Built a high performance, controlled agentic search system using ripgrep style text scanning to query large unstructured knowledge bases with predictable latency. Delivered explainable, reproducible retrieval without probabilistic search. **Tech Stack:** Python, LangChain, LangGraph, Azure AI Search, Azure APIs.

**Grafana Dashboard:** Developed multiple grafana dashboards to monitor APIs and infra to find out issues and send alert proactively to the respective teams. **Tech Stack:** Grafana, Prometheus, KQL.

**Sentiment Classifier:** Designed and implemented an NLP pipeline to classify customer support chat messages as positive or negative. **Tech Stack:** Python, HuggingFace Transformers, PyTorch, Scikit-learn, Pandas, NumPy.

## TECHNICAL SKILLS

Languages	Python, SQL
AI & Cloud	LangGraph, LangChain, OpenAI APIs, LLaMA, Vector Databases, RAG, Azure
MLOps & Backend	Docker, Kubernetes, MLflow, FastAPI
Observability	Grafana, Prometheus, PowerBI

## CERTIFICATIONS

[Prompt Engineering for ChatGPT](#) — [Knowledge Graphs for RAG](#) — [Generative AI for Everyone](#) — [GPT Vision](#) — [T-SQL](#)

## EDUCATION

Bachelor Of Technology, National Institute of Science and Technology