

Muskan

ML Engineer | AI Engineer | Data Scientist
muskanverma.2798@gmail.com | +49 1525 9857961

EDUCATION

INTERNATIONALE HOCHSCHULE

M.Sc. IN DATA SCIENCE
Apr 2023 - Apr 2025 | Berlin, DE

ABESIT

BACHELOR OF TECHNOLOGY
Aug 2016 - Aug 2020 | INDIA

LINKS

Portfolio:// Muskan
LinkedIn:// Muskan
Github:// Muskan-Verma-7
X:// ignitedsmile

DOMAIN

WORKED ON

Generative AI
LLM Agents
RAG
System Design
LLM FineTuning (LoRA/Vertex AI)
ETL Pipelines
Orchestration
MLOps
CI/CD
Classical Machine Learning
Deep learning

SKILLS

TECHNICAL

- | | |
|-----------------|-------------------|
| • Python | • PyTorch |
| • pandas | • NumPy |
| • scikit-learn | • spaCy |
| • LangChain | • LangGraph |
| • LlamaIndex | • RAG |
| • FastAPI | • ETL |
| • Airflow | • n8n |
| • Docker | • Kubernetes |
| • Terraform | • CI/CD |
| • Azure ML | • AWS SageMaker |
| • GCP Vertex AI | • Azure Data Lake |
| • PostgreSQL | • ChromaDB |

PROJECT MANAGEMENT

JIRA
Confluence
Notion
Figma
Github

SUMMARY

AI ENGINEER AND LLM SPECIALIST FOCUSED ON BUILDING PRODUCTION-GRADE AGENTIC WORKFLOWS AND RAG ARCHITECTURES. EXPERT IN ORCHESTRATING MULTI-AGENT SYSTEMS (LANGGRAPH), FINE-TUNING, AND OPTIMIZING VECTOR SEARCH STRATEGIES. SKILLED IN QUANTIZATION AND MULTIMODAL DEPLOYMENT TO DELIVER SCALABLE, HIGH-PERFORMANCE AI SOLUTIONS.

EXPERIENCE

SAGAS IT ANALYTICS | AI ENGINEER

Jul 2024 - Aug 2025

- Built an **AI Research Assistant** with **RAG**, **LangChain**, **LangGraph**, and OpenAI LLMs integrated with vector search; cut research time by **30%**.
- Designed custom retrieval workflows with **LlamaIndex**, building a **ReAct-style agent** for dynamic chunking; improved query accuracy by **18%**.
- Researched and optimized **embedding strategies**, reducing retrieval cost/query by **15%**.
- Developed RAG evaluation frameworks using **RAGAS** and **Langsmith**, with custom datasets; improved coverage by **40%**.
- **Fine-tuned LLMs** (LLaMA 2 on **Vertex AI** with **custom inference containers**, dynamic batching, and quantization; reduced inference latency by **25%**.
- Integrated AI agents in **LangGraph** with short-term & long-term memory (**Mem0**); increased task completion rate by **20%**.
- Created schema-aware **synthetic data generators**; fine-tuned downstream models achieving **+12% F1 score**.

GRAND VIEW RESEARCH | US | BI ENGINEER

Jan 2021 - Jan 2023

- Developed **ARIMA** and **multivariate regression models** to forecast market CAGR, reducing prediction error by 15% over linear baselines.
- Implemented customer segmentation via **K-Means**, increasing marketing effectiveness by **+20%**.
- Automated **Facebook ads** with **GPT-3**, boosting engagement by **+35%**.
- Implemented **n8n automations**, reducing errors/costs by **20%** and boosting signups by **15%**.
- Engineered automated **Python ETL pipelines**, reducing data preprocessing time by **50%** for AI model training.

SKILLATE | IN | INTERN: DATA ANALYST

Oct 2020 - Dec 2020

- Collaborated with the ML team to curate high-quality 'Ground Truth' datasets for **NLP models**, performing rigorous data annotation and quality assurance (QA) to minimize noise in training corpora.
- Delivered **Dash/Plotly** dashboards, improving decision speed by **+30%**.

PROJECTS

AI VOICE INTERVIEW AGENT | PYTHON, LANGCHAIN, OPENAI (GPT, WHISPER, TTS), CHROMADB, STREAMLIT

Built a **multimodal agent** that conducts voice-based interviews by retrieving resume context via **RAG** and managing flow with a finite state machine.