# ARTI MHASKE

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**Portfolio:** https://artimhaske34.github.io/arti_mhaske_portfolio/

## PROFESSIONAL SUMMARY

Final-year engineering student with hands-on experience developing LLM-powered applications, multi-agent systems, and Retrieval-Augmented Generation (RAG) pipelines. Skilled in Python, LangChain, LangGraph, FAISS, and FastAPI, with experience in agent orchestration, semantic retrieval, memory-enabled workflows, and local LLM inference. Interested in building intelligent, personalised AI applications that solve real-world problems.

## EDUCATION

**Vishwakarma Institute of Information Technology (VIIT), Pune**

B.Tech. Electronics & Telecommunication Engineering |CGPA: 8.19 | Expected 2027

HSC : 92.50% | SSC: 95.60%

## TECHNICAL SKILLS

**Programming:** Python, C++, SQL

**Generative & Agentic AI:** LLMs, Generative AI, Agentic AI, RAG, Multi-Agent Systems, Agent Orchestration, Embeddings, Semantic Search

**AI/ML:** Machine Learning, Deep Learning, NLP, PyTorch, OpenCV

**LLM Frameworks & Tools:** LangChain, LangGraph, FAISS, Gemini, Ollama

**Backend & Development:** FastAPI, REST APIs, Streamlit, Git, GitHub, AWS

**Data & Analytics:** NumPy, Pandas, Statistics, EDA, Power BI, Excel

## PROJECTS

**Lumi — Multi-Agent Personal AI Assistant** | ***LangGraph • LangChain • Gemini • RAG • FastAPI • Streamlit***

- Built a multi-agent AI assistant supporting goal planning, learning, progress tracking, skill-gap analysis, wellness, future planning, and memory.
- Developed RAG-based document Q&A and learning workflows, with FastAPI/Streamlit modules and centralized Lumi orchestration.

**MediRAG — Privacy-Preserving Agentic Healthcare Assistant** | ***LangGraph • FAISS • RAG • Ollama***

- Built an offline RAG assistant using FAISS retrieval and Ollama for local LLM inference and privacy-focused document processing.
- Implemented agentic routing with LangGraph and incorporated Laplacian noise (ε = 1.2) into the privacy-preserving retrieval workflow.

**Oil Spill Detection & Analysis** | ***Deep Learning • Image Segmentation***

- Developed a deep-learning image-segmentation system to identify oil-spill regions from paired satellite images and masks.
- Implemented spill-region extraction and area estimation as the foundation for mapping, spread prediction, environmental risk scoring, and alerting.

**Face Recognition with Liveness Detection** | ***• Face Recognition • Liveness Detection***

- Developed a face-recognition system with liveness detection to distinguish live users from spoofing attempts.
- Integrated face recognition and liveness verification into an automated authentication workflow.

## DATA ANALYTICS PROJECTS

**Air Traffic Analysis Dashboard** | ***Power BI • Power Query • DAX***

- Built an interactive dashboard analyzing flight volume, cancellations, delays, airline performance, and monthly trends.
- Used KPI cards, filters, geographic views, and trend analysis for interactive exploration.

**Business Performance Dashboard** | ***Excel • Data Analysis • Dashboarding***

- Designed an interactive Excel dashboard for income targets, revenue sources, and monthly operating performance.
- Created KPI-based analytical views for exploring business and financial metrics.

## ACHIEVEMENTS & CERTIFICATIONS & LEADERSHIP

- Selected in the internal rounds of Smart India Hackathon (SIH).
- Certifications: Data Analytics — Unstop; AI/ML — Unstop; Master Dashboards and Data Visualization in Power BI — LinkedIn Learning.

NSS Volunteer | National Service Scheme

- **Joint Cultural Head | Women Empowerment Cell, VIIT***(2024)*
- Collaborated with team members to organize cultural events and awareness workshops.