

adani | Institute of Digital Technology Management

SUMIT KUMAR MAHATO

+91 8757822221 | sumitmahato.aids25@aidtm.ac.in

github/sumitkumarmahato | linkedin.com/in/sumitkumarmahato

Ahmedabad, India | portfolio

Career Objective

AI & Data Science professional with 2+ years of industry experience, specializing in Generative AI, machine learning, and scalable AI application development. Currently pursuing a PGDM in AI & Data Science, with hands-on expertise in building production-oriented AI solutions using modern frameworks and technologies.

Work Experience

Adani Solar, Mundra Aug 2022 - May 2024

Assistant Manager

- Worked on the construction and commissioning of the 2 GW TOPCon manufacturing project, including utility establishment, machine movement, installation, and process commissioning activities.
- Managed end-to-end procurement processes, including purchase requisitions, purchase orders and vendor evaluation using SAP MM.

Internship

Healthark Insights Apr 2026 – Aug 2026

Consulting Intern - Artificial Intelligence & Data Science

- Developed Curie, an enterprise-grade AI platform leveraging FastAPI, LangGraph, PostgreSQL, and multiple API integrations to orchestrate intelligent, context-aware workflows.
- Built a scalable and observable AI backend integrating Redis caching, Docker containerization, and LangSmith for performance optimization, streamlined deployment, and end-to-end LLM monitoring.
- Engineered an AI-powered XLIFF translation pipeline using OpenAI GPT-4o, XML parsing, and OCR-based graphics translation to automate Adobe FrameMaker localization while preserving document structure and formatting.

Apparatus Solutions, Pune Sep 2022 – Dec 2022

Intern – Business Analyst

- Assisted in business analytics tasks by performing data analysis and visualization using Python, contributing to data-driven decision-making.
- Supported marketing and design activities by creating visually appealing layouts in Canva.

Patel Infrastructure, Patna Nov 2020 – Apr 2021

Intern – Project Engineer Trainee

- Conducted surveys and investigations for project development.
- Assisted in preparing Detailed Project Reports (DPRs) and developing layouts for ongoing road and bridge projects using AutoCAD.

Academic Projects

Stroke Prediction – Classification Model Aug 2025 – Sept 2025

Project using Machine Learning

- Executed the full ML lifecycle on healthcare data: data cleaning, missing-value treatment, exploratory data analysis, feature engineering, and class-imbalance handling.
- Trained and benchmarked Random Forest, K-Nearest Neighbours, and Decision Tree classifiers with hyperparameter tuning to identify the best predictive approach.
- Achieved 94% prediction accuracy and evaluated model performance using Recall metric.

Agentic AI Skill Gap Analyzer Dec 2025 – Jan 2026

Project using Agentic AI

- Built a multi-agent AI platform using LangGraph state orchestration to parse resumes against job descriptions and automatically surface skill gaps via embedding-based semantic similarity.
- Implemented an embedding and vector-search retrieval layer for skill extraction and cosine-similarity matching, then served it through a FastAPI backend.
- Integrated a human-in-the-loop review checkpoint into the agent graph, improving recommendation relevance and giving users control over final upskilling suggestions.

RAG-Based Medical Chatbot for Health Insights Nov 2025 – Feb 2026

Project using Generative AI & RAG

- Developed an end-to-end Retrieval-Augmented Generation assistant that combines dermatology image analysis, semantic retrieval, and LLM reasoning to answer patient health queries.
- Constructed a domain knowledge base through web scraping, text preprocessing, chunking, and embedding generation, improving retrieval relevance over keyword search.
- Grounded LLM responses in retrieved context via similarity search to reduce hallucinations in clinical queries, and applied OpenCV-based preprocessing to standardise input images before inference.

Skills

Programming & DB	Python, SQL, PostgreSQL
Agentic and Generative AI	LangChain, LangGraph, RAG, LLM Orchestration, Prompt Engineering, Embeddings, Vector Databases, Semantic Search, Multi-Agent Workflows, Tool Calling, Human-in-the-Loop, LLM Observability
Backend Dev & Tools	FastAPI, REST APIs, Docker, Git, GitHub, Redis, LangSmith, Postman
ML/DL and Statistics	ANNs, CNNs, RNNs, Transformers, LSTM, Bagging & Boosting, EDA

Education

Adani Institute of Digital Technology Management 2025 - Present
PGDM in AI & Data Science **CGPA 3.85/4.33**

Kalinga Institute of Industrial Technology, Bhubaneswar 2018 – 2022
B.Tech in Civil Engineering **CGPA 8.49/10.00**

Personal Details

Date of Birth	June 14th, 2000
Languages Known	Hindi, English
Hobbies	Photography, Designing, Coding