

Shanu Kumar Manglam

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PROFESSIONAL SUMMARY

Early-career **Generative AI / AI Engineer** with hands-on experience building **RAG applications, agentic workflows, LLM-powered tools, and AI-enabled data pipelines**. Strong in Python, LangChain, LangGraph, Google ADK, Gemini, vector search, FastAPI, Docker, and cloud deployment. Experienced in connecting LLMs with retrieval, APIs, structured workflows, evaluation, and Responsible AI practices.

TECHNICAL SKILLS

GenAI & Agents: Google ADK, LangChain, LangGraph, Agentic Workflows, Tool Calling, Multi-Agent Orchestration, Prompt Engineering

RAG & LLM Engineering: RAG, FAISS, Embeddings, Vector Search, Semantic Search, Retrieval Pipelines, GPT-4o, Gemini API, Responsible AI

AI / ML: Machine Learning, Deep Learning, NLP, Feature Engineering, Model Evaluation, PyTorch, TensorFlow, Scikit-learn, Pandas, NumPy

Backend / Cloud: Python, FastAPI, Flask, REST APIs, Streamlit, Docker, Google Cloud Run, GCP, AWS, Git, GitHub Actions, CI/CD

Data Engineering: SQL, PySpark, Apache Spark, ETL, Data Cleansing, Data Validation, EDA, Power BI, Looker Studio

EXPERIENCE

Cognizant Feb 2026 – Apr 2026
Programmer Analyst Trainee Chennai, India

- Built AI-enabled agentic workflows and reporting solutions using **Microsoft Copilot Studio**, prompt engineering, and Responsible AI guardrails.
- Developed **Python/PySpark ETL pipelines** to clean, transform, and validate structured marketing datasets; created KPI dashboards using GA4, GTM, Adobe Analytics, and Looker Studio.

Ernst & Young Feb 2024 – Apr 2024
Data Analyst Intern Remote

- Developed predictive analytics models and **Power BI KPI dashboards** using Python and SQL for healthcare data analysis.
- Performed **EDA and ETL** to clean and transform structured datasets, contributing to a **20% improvement in reporting accuracy**.

PROJECTS

Coffee Barista RAG Agent | Gemini, Vertex AI, Google ADK, Streamlit, Cloud Run Jul 2026 – Aug 2026

- Built a RAG conversational assistant using **Gemini, Vertex AI, and Google ADK** for grounded menu recommendations from a controlled knowledge source.
- Implemented retrieval and allergen-aware filtering, conversational state, and deployment of the containerized Streamlit application on **Google Cloud Run**.

HealthBot – Patient Assistant | Python, LangGraph, LangChain, GPT-4o Mini, Tavily Aug 2026 – Sep 2026

- Built a healthcare-focused RAG assistant using **LangGraph and LangChain** with topic validation, web retrieval, summarization, quiz generation, and evaluation stages.
- Applied structured prompting, workflow state management, and evaluation steps to improve consistency and control of LLM outputs.

HR Policy Assistant – Enterprise RAG | FAISS, LangChain, GPT-4o, FastAPI, Docker May 2026

- Engineered a document Q&A system using **FAISS, LangChain, GPT-4o, and FastAPI** for context-aware responses over enterprise policy documents.
- Implemented semantic retrieval and safety guardrails; improved retrieval relevance by **35%** and containerized the service with Docker and CI/CD.

EDUCATION

University of Engineering & Management, Kolkata Aug 2021 – Jul 2025
B.Tech in Electronics and Communication Engineering, CGPA: 8.86/10 Kolkata, India

CERTIFICATIONS

ATCI - Machine Learning, Generative AI and Agentic AI, Data & AI Foundations, DevOps | Google Data Analytics | Google Cloud Gen AI Academy APAC 2026 | RAG AI Agents with Google ADK + Cloud Run | Microsoft Copilot Studio | **AWS - EC2, S3, EKS, ECR, IAM** | Google Analytics (GA4) | IBM - Data Science

HONORS & PUBLICATIONS

Vice Chancellor's Award for Best Scientific Mind 2025 – recognized for innovation and research contributions in AI, Machine Learning, and Electronics Engineering.

UEMGREEN'25: research on vehicular CO₂ emission prediction using Machine Learning and a review of renewable-energy trends and AI-driven technologies.