

Dipanjan Kuila

Email: dipanjan761@gmail.com

LinkedIn: <https://www.linkedin.com/in/dipanjan-kuila/>

GitHub: [DipanjanKuila \(Dipanjan Kuila\) · GitHub](https://github.com/DipanjanKuila)

Mobile: 9800639393

SUMMARY

Generative AI Specialist: 3.3 years of expertise in LLM models, vector databases, and Azure AI Search.

Proficient in AI Frameworks: Skilled in LangChain, LlamaIndex, and GAN models for synthetic data generation.

Backend Developer: Strong hands-on experience with Python and Rest API for scalable applications.

Machine Learning and Data Science Expert: Hands-on experience with diverse machine learning algorithms and data science libraries such as NumPy, Pandas, Scikit-learn, TensorFlow.

AI Product Contributor: Played a key role in building GenAI products at ITC Infotech.

Passionate Innovator: Eager to tackle challenges and push the boundaries of AI technology.

SKILLS

Languages: python,Java

Databases: Postgre/SQL, MongoDB

Vector Databases: AstraDB, Azure AI Index

Machine Learning & Deep Learning: Scikit-Learn, TensorFlow, Keras, Deep Learning, Machine Learning, Time Series Analysis, Regression, Forecasting, Classification

Generative AI & NLP: Generative AI Tools, Generative Adversarial Networks (GANs), LLM,RAG, Multimodal, NLP, Agentic Workflow, Transformers,BERT, MCP

Frameworks & Libraries: LangChain, LangGraph, LlamaIndex,Langflow, Rest API(FAST API,FLASK)

Cloud & AI Services: Azure, AWS bedrock, AWS SageMaker

WORK EXPERIENCE

Associate It consultant | ITC Infotech

september 2022 – june2025

AI/ML Project

- Developed, maintained, and enhanced Synthetic data generation models using GANs and VAEs to support advanced AI applications.

Gen Ai Project

- Conducted Multimodal analysis of documents containing images, tables, and text leveraging vision models for comprehensive insights.

Gen Ai Product Development

- Developed and maintained a Gen AI application for ITC Infotech utilizing GPT-3.5, GPT-4, GPT-4o, and GPT-4o Mini models, integrating Azure AI Search with the LangChain framework. Designed and implemented the backend using Python and FastAPI, leveraging the Retrieval-Augmented Generation (RAG) framework with extensive customization to meet client requirements. Utilized vector databases, including AstraDB and Azure AI Index, to enhance retrieval efficiency. Additionally, incorporated LangGraph to enable an agentic workflow for advanced automation and decision-making, ensuring efficient and context-aware responses with robust chat memory management.

Sr software developer| Sutherland Global

july2025 - Present

Code Generation assistant product

- Developed an intelligent assistant that converts requirement documents into user stories then generate code creation, API testing, and test case generation.
- Built the backend using FastAPI integrated with LangChain for orchestration and Ollama open-source models for local LLM inference.

PERSONAL PROJECTS

Multi_Ai_Agent_LangGraph([GitHub - DipanjanKuila/Custom_Ai_Agent_Langgraph](https://github.com/DipanjanKuila/Custom_Ai_Agent_Langgraph))

- Developed a Custom AI Agent integrated with Azure and Google APIs, leveraging the Azure OpenAI model and Google SERP API to create a dynamic, intelligent workflow. Designed and implemented an agentic architecture

with the LangGraph framework, enabling seamless orchestration of multiple specialized agents for automated decision-making and data processing. This AI-driven architecture enables automated decision-making, real-time data extraction, and intelligent error handling, making the system highly adaptive and efficient.

Mcp_Agent_fastapi ([GitHub - DipanjanKuila/MCP_AGENT_FASTAPI](#))

Developed a modular AI-powered tool framework by integrating FastAPI with MCP (Modular Command Protocol). Converted multiple REST APIs into intelligent tools consumable by LLMs using `fastapi-mcp`. Enabled dynamic schema handling, memory-based chat interface with `MCPAgent`, and robust user data management via local JSON. Also demonstrated real-time interaction with a locally hosted MCP server.

Rag_Multi_Ai_Agent([GitHub - DipanjanKuila/Multi_Ai_Agent](#))

- AI-based document question answering system integrating various sources. Implemented an AI-based question-answering agent with Langchain and Azure Open AI, supports document uploads and advanced question routing and integration with external sources like wikipedia and Arxiv to enrich responses.

Automated_Stock_Report_Analyzer([GitHub - DipanjanKuila/Stock_analysis](#))

This project is an end-to-end automation system that reads financial PDFs uploaded to a Google Drive folder, analyzes them using Azure OpenAI model, and sends a detailed report to email.

Convolution_Neural_Network ([GitHub - DipanjanKuila/Convolutional-Neural-Network-](#))

- Implementation of CNN for image classification using TensorFlow and Keras. Built and trained a Convolutional Neural Network CNN to classify images of cats and dogs with high accuracy.

ACHIEVEMENTS

Certificate of Appreciation from ITC Infotech

(<https://drive.google.com/file/d/14DDHacHyg0o2U5fSRM7TpR KanayOz3fj/view?usp=sharing>)

- Played a key role in building innovative GenAI products through expertise in LLM models and advanced AI techniques.
- Recognized for demonstrating responsibility, promptness, efficiency, and reliability in task execution Certificate ID ITCIUR7G452321, 31-12-2024.

Language

- English, Hindi, Bengali

Education

Guru Nanak Institute Of Technology, Kolkata(2018-2022)

- B. Tech in Electrical Engineering
- 8.20