

Siddhartha Roy

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Summary

AI Engineer specialized in Generative AI, LLMs and Agentic Systems (LangChain, LangGraph and CrewAI), with expertise in Prompt Engineering, NLP and Deep Learning(RNN, LSTM, GRU, Transformers). Proficient in building and deploying end-to-end AI solutions, optimizing model performance, and managing data workflow using SQL(PostgreSQL, MySQL) for scalable, intelligent applications. Seeking full-time roles in similar fields.

Technical Skills

Programming Language: Python(NumPy, Pandas, Scikit-Learn, TensorFlow, Keras, NLTK, Seaborn, Matplotlib), SQL

Database: Relational Database(MySQL, PostgreSQL), VectorDB(Chroma DB, FAISS, Pinecone DB)

Machine Learning : Regression, Classification(Linear Regression, Logistic Regression, Decision Trees, Random Forest, XGBoost)

Deep Learning & NLP: CNN, ANN, RNN, LSTM GRU, Encoders and Decoders, Transformers

GenAI & Agentic AI: LangChain, Crew AI, LangGraph, Embeddings(OpenAI, HuggingFace, Ollama)

Deployment: Streamlit

Tools and Software: Visual Studio Code, PowerBI, JIRA, Excel

Experience

Relatient - Business /Implementation Analyst | Remote

Dec. 2021 - March 2024

- **Implemented Software products**, for US Based clinics to set up appointment scheduling and patient engagement.
- Supported all these **post Go-Live to mitigate application/product configuration** issues and change requests.
- Assisted in design, requirement analysis and regression testing as per clinic specific stipulations.
- Proactively engaging with clients to Support and drive adoption and usage of specific products and features within the suite of products offered.
- Performed **qualitative and quantitative research to reduce average time taken** to resolve the customer support tickets by proactively addressing implementation and design issues with product development teams.
- Identify the implementation areas that can be automated and work with the relevant internal teams to get it completed.

Tools & Technologies - PostgreSQL, AWS ECS, AWS S3, JIRA, PowerBI, Excel

Swaspet Pvt. Ltd. - Associate | Kolkata, WB

Jan. 2020 - Feb. 2021

- Analyzed transactional data to uncover emerging market trends and identify growth opportunities supporting strategic business expansion.
- Collaborated with cross-functional teams to streamline business processes, align operations with organizational goals, and deliver data driven reports for senior management.
- Contributed to business reviews by providing data-backed insights that supported strategic planning, decision-making and internal performance reporting.

Tools & Technologies - Excel, PowerPoint, Word

Projects

AI Ticket Triage System(LangGraph)

Source Code - [GenAI/AI Ticket Triage System](#) | Application Link - [View Live App](#)

- **Overview:** Engineered an **LLM powered ticket automation system** using **LangGraph** and **Groq Llama 3.1**, capable of categorizing, summarizing and dept. routing healthcare support tickets intelligently.
- **Outcome:** Improved support efficiency and response time by **automating ticket workflows** through **prompt engineered reasoning chains** and **agentic task orchestration**.
- **Tech Stack:** LangGraph, Groq API, Llama 3.1 8B, Streamlit, Generative AI Workflow, Prompt Engineering

Business Consultant Analyst(Crew AI)

Source Code - [GenAI/Business Consultant Analyst](#)

- **Overview:** Developed a **CrewAI driven autonomous analyst agent** that performs data ingestion, EDA, visualization and business insight generation from structured datasets.
- **Outcome:** Enabled **end-to-end analytical automation**, reducing manual analysis time and generating insightful business summaries through **multi-agent collaboration**.
- **Tech Stack:** CrewAI, GPT-4o-mini, Python, Pandas, Matplotlib, Seaborn, Generative AI agents

QueryMyPDF(RAG System)

Source Code - [GenAI/QueryMyPDF](#) | Application Link - [View Live App](#)

- **Overview:** Created a **Retrieval-Augmented Generation(RAG)** system enabling users to query multiple PDFs conversationally using **LangChain** and **Pinecone vector store**.
- **Outcome:** Delivered **context-aware, accurate answer by semantic retrieval, vector embeddings** and **conversational memory** for document understanding.
- **Tech Stack:** LangChain, Pinecone, FAISS, Groq API, Streamlit, OpenAI Embeddings, RAG Pipeline

Education

International Institute of Information Technology(IIIT), Bangalore

Dec. 2020 - Feb. 2022

Post Graduate(PG) Diploma in Data Analytics

MS Ramaiah Institute of Technology(MSRIT), Bangalore

Aug. 2014 - Aug. 2019

Bachelors of Engineering(BE) in Electrical and Electronics