

Samudrala Neha

DATA ANALYST | GEN AI ENGINEER| ML ENTHUSIAST | SOFTWARE ENGINEER

+918125511389 neha.samudrala02@gmail.com https://github.com/SamudralaNeha14

Hyderabad, Telangana

SUMMARY

Motivated Computer Science graduate with hands-on experience in software development, data analytics, machine learning, and emerging GenAI technologies. Proficient in Python, SQL, and modern web development, with growing expertise in LLMs, RAG pipelines, AI agents, and prompt engineering. Built scalable tools and intelligent ML/LLM applications across internships and academic projects. Strong problem-solver with a drive to design efficient, data-driven, and AI-powered systems

WORK EXPERIENCE

DEVELOPER, Inam Solutions

JUNE 2024-DEC 2024

- Built automated data pipelines using Python and SQL to clean and process 150K+ records, reducing reporting time by 30%.
- Supported backend teams in ETL integration with MySQL-based dashboards.
- Prototyped a customer churn prediction model using historical behavioral data.
- Ensured data quality and standardization across analytics workflows.
- Key Skills: Python, SQL, Data Cleaning, MySQL, Git, Data Profiling

PROJECTS EXPERIENCE

KISAN MITRA (SIH 2022 FINALIST) – NODE.JS, MONGODB, EXPRESS.JS

- Designed a platform connecting farmers to Agri-drone services.
- Optimized request handling, improving order response time by 40% .
- Presented the solution at the Smart India Hackathon 2022 finals.

DEEFAKE DETECTION SYSTEM – PYTHON, CNN/RNN, STREAMLIT

- Built a real-time deepfake detector using CNN and RNN models.
- Achieved ~92% accuracy with training on diverse image datasets.
- Deployed the model via Streamlit for web-based testing.

MOVIE RECOMMENDER APP – PYTHON, SCIKIT-LEARN, STREAMLIT

- Developed a content-based filtering engine using cosine similarity.
- Integrated a user-facing interface for personalized movie recommendations.

AI AGENT SYSTEMS & RAG PIPELINES – PYTHON, LANGCHAIN, GROQ API, STREAMLIT

- Developed production-ready LLM agents for news analysis, document Q&A.
- Implemented RAG pipelines, embeddings, vector search, and LangChain tool routing.
- Built evaluation loops, memory-enabled agent behavior, and multi-step reasoning flows.

EDUCATION

B.Tech in Computer Science (AI/ML)

Keshav Memorial Institute of Technology – 2024

Cybersecurity Micro-Credit Program

Indian Institute of Technology (IIT), Guwahati Oct 2024 - November 2025

TECHNICAL SKILLS

- Languages:** Python, SQL, Java, JavaScript, HTML/CSS,OOPS, React.JS
- GenAI & LLMs:** Prompt Engineering, RAG, LLM Evaluation, LangChain, LangGraph, Agents, Groq API, GPT
- Databases:** MySQL, MongoDB, Firebase
- Cloud & DevOps:** GCP (basics), Docker, Git, CI/CD (beginner), Azure(Basics)
- ML & Analytics:** Scikit-learn, Pandas, NumPy, CNN/RNN, Streamlit
- Tools:** FastAPI, Tableau, Power BI
- AI-Assisted Development :** Git Copilot, Claude, ChatGPT, Perplexity

CERTIFICATIONS

- Smart India Hackathon 2022 – Finalist
- Google Cloud Certified Generative AI Leader
- Data Analytics Certificate
- “Freedom with AI” Workshop Completion