

Tilak Raj Singh

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Career Objective

Computer Science undergraduate targeting the **AI Analyst** role. Hands-on with Python, SQL, data analysis, Power BI dashboards, and LLM-based retrieval-augmented generation (RAG) systems. Comfortable turning business questions into data-driven insights and building working AI solutions end to end.

Technical Skills

- **AI / ML and RAG:** LLMs (Llama 3.1), RAG, LangChain, ChromaDB, vector databases, Hugging Face, Ollama, Groq API, OpenAI API, prompt engineering
- **Programming:** Python, SQL, C
- **Data and Analytics:** Power BI, data analysis, data visualization, data transformation, dashboard development, anomaly and pattern analysis
- **Development:** FastAPI, REST APIs, React, Vite, Streamlit, Tailwind CSS
- **Tools:** Git, Docker, unit testing, technical documentation

Projects

ChatboxLM – Retrieval-Augmented Generation (RAG) System [\[GitHub\]](#)

Python, FastAPI, ChromaDB, Groq API, Llama 3.1

- Built a provider-agnostic RAG application that answers questions grounded in user documents, using Llama 3.1 via the Groq API, with Groq, OpenAI, and Ollama as swappable LLM backends.
- Developed a document-ingestion pipeline (parsing, chunking, embeddings) with ChromaDB semantic search to retrieve relevant context for each query.
- Designed a FastAPI REST API with vector retrieval enabling sub-second document search and easy LLM integration.

Bank Loan Analysis [\[GitHub\]](#)

Python, SQL, Power BI

- Analyzed a structured loan dataset to find approval trends, portfolio patterns, and anomalies across borrower and loan segments to support lending decisions.
- Cleaned and transformed the data with Python and SQL, and built Power BI dashboards tracking key performance indicators for stakeholders.

Noir Brew – AI-Powered Cafe Website [\[GitHub\]](#)

React, Vite, Claude API

- Developed a responsive web app with an AI chatbot featuring streaming responses and context-aware conversation handling for customer queries.

Certifications

Deloitte Data Analytics Virtual Internship, Deloitte / Forage, Aug 2026 [\[Certificate\]](#)

Education

KIIT School of Computer Science , Bhubaneswar <i>B.Tech in Computer Science and Engineering</i> CGPA: 7.11	2023 – 2027
Class XII (Senior Secondary) – Passed	2021 – 2023
Class X (Secondary) – Passed	2020 – 2021