

Sahil Bhirud

+91 8010231305 | sahilbhirud05@gmail.com | sahilxai.vercel.app | github.com/sahilxai | linkedin.com/in/sahilbhirud2005

Professional Summary

AI/Software Engineer(Fresher) with hands-on experience in building AI-driven and end-to-end applications. Skilled in Python, SQL, FastAPI, LLMs, RAG, Cloud, Git, GitHub, Docker, CI/CD, ML and Generative AI, with additional expertise in data analytics and visualization. Built projects including **AskLytx- An AI Data Analyst application**, **RAG-based system** and **PowerBI dashboards**. Focused on developing scalable software, practical AI solutions, and data-driven applications to solve real-world problems.

Experience

iBase Electrosoft LLP

Sep 29 – Oct 4, 2025

Python Trainee (Short-Term Internship)

Pune, India

- Completed hands-on training in Python fundamentals and problem-solving.
- Developed mini-programs applying core programming concepts.

Education

North Maharashtra University

Expected May 2027

MCA in Data Science (Currently Pursuing, CGPA: 9.14)

Maharashtra, India

North Maharashtra University

June 2022 – June 2025

BS in Computer Science (CGPA: 8.51/10)

Maharashtra, India

Projects

AskLytx – Data Analyst AI Web Application | FastAPI, React, Groq LLM (gpt-oss-120b), Supabase

- Built an AI data analyst web app that converts raw tabular datasets (CSV/XLSX) into dynamic visualizations, data cleaning pipelines, and executive PDF reports.
- Engineered automated 5-step data cleaning, sandboxed Python code execution, and conversational AI query processing using **Groq LLM(gpt-oss-120b)**.
- Designed a responsive React 19 frontend with Plotly chart canvas and secured user dataset storage using Supabase.

Documind – RAG (Retrieval-Augmented Generation) based Web Application | FastAPI, React, LLAMA LLM

- Developed a web app to interact with PDFs using natural language queries.
- Implemented **RAG** with **FAISS** for semantic search and **LLAMA LLM** for response generation.
- Built backend API's with **FastAPI** and responsive UI using **React**.

PLCForge AI – NL to PLC Code Generation AI | FIRE 2026 Shared Task | Qwen 2.5 7B | LoRA Fine-Tuning

- **Fine-tuned** Qwen 2.5 7B via **LoRA** in Colab to synthesize industrial PLC Structured Text and Rust controllers from text prompts.
- Implemented a deterministic safety gate and 4-tier evaluation engine, securing good functional correctness and accuracy.
- Created full-stack platform with FastAPI backend (in-memory weight fusion) and React UI for real-time execution and code viewing.

Amazon Prime Video Dashboard (Power BI) | Power BI, Excel

- Developed an interactive Power BI dashboard analyzing 9,600 titles to identify trends in genres, ratings, and content distribution.
- Used **data modeling and visualizations** to uncover **platform growth patterns** and support **data-driven insights**.

Technical Skills

Core Skills: AI, Machine Learning, Fine Tuning, Model Evaluation, Git, GitHub, Docker, CI/CD, Cloud, APIs, Prompt Engineering, EDA, Statistical Analysis, Data Cleaning, Data Modeling, Data Visualization, Data Structures and Algorithms, Object Oriented Programming.

Languages: Python, SQL, C++, Java.

Tools: Power BI, Excel, Jupyter Notebook, Google Colab, GitHub, Netlify, Render, Vercel, Supabase, MySQL, MS SQL Server, PGAdmin, Visual Studio.

Certifications: GenAI Powered Data Analytics (**TATA Forage**), Python for Data Science (**Infosys Springboard**), Business Intelligence(**Infosys Springboard**), Campus To Corporate Workshop (**SSIC**), SQL (**Analytics Vidhya**), Statistics (**Great Learning**), Google Analytics, Python 3.4.3 Training (**IIT Bombay**), RDBMS PostgreSQL Training (**IIT Bombay**).