

Purba Saha

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[LinkedIn](#) | [GitHub](#) | [Portfolio](#)

SUMMARY

AI/ML Engineering student with hands-on experience building scalable data pipelines, RAG-based LLM applications, and executive-grade BI dashboards. Proficient in Python, SQL, LangChain, and Power BI, with a track record of transforming 100,000+ record datasets into measurable business outcomes. Passionate about applying deep learning and large-scale data systems to solve real-world problems — aligned with Google's mission to organise the world's information.

EDUCATION

B.Tech in Computer Science & Engineering — AI/ML Specialisation

Expected – May 2027

JIS College of Engineering, Kalyani, West Bengal, India

TECHNICAL SKILLS

Languages:	Python, SQL (PostgreSQL, MySQL), JavaScript
ML / AI:	RAG Pipelines, LangChain, LLMs, Ollama, FAISS, OpenAI API, Groq API, Deep Learning, NLP, Embeddings
Data & Analytics:	Pandas, NumPy, Matplotlib, Seaborn, Power BI, DAX, Excel
Tools & Platforms:	Git/GitHub, VS Code, Jupyter Notebook, Google Colab

EXPERIENCE

Power BI Intern

Feb 2026 – Mar 2026

Cognifyz Technologies — Remote, India

- Designed production-grade Power BI dashboards converting multi-source raw data into real-time KPI views for senior stakeholders, significantly reducing manual reporting overhead.
- Built complex DAX measures and calculated columns across relational models, enabling drill-through analysis of business metrics across multiple departments.
- Collaborated with product and analytics teams in an agile, feedback-driven workflow to iterate on dashboard UX and data accuracy.

Data Visualization Analyst — Virtual Internship

Jan 2026

Tata Consultancy Services (Forage) — Remote

- Built C-suite Power BI dashboards unifying KPIs across business units, enabling data-driven executive decision-making.
- Presented strategic insights to simulated C-level stakeholders, translating complex technical findings into clear, actionable business recommendations.

PROJECTS

AI QnA Chatbot (RAG-Based)

Apr 2026

Python, LangChain, Ollama, FAISS, Groq API

- Engineered an end-to-end Retrieval-Augmented Generation (RAG) pipeline using LangChain and FAISS vector store to enable context-aware question answering over custom document corpora.
- Integrated Groq API and Ollama for low-latency LLM inference; optimised embedding and retrieval stages to improve answer relevance and reduce hallucination.
- Designed modular pipeline architecture supporting plug-and-play model swapping and scalable document ingestion.

Customer Behaviour Analytics Dashboard

Jan 2026

Python, Pandas, NumPy, PostgreSQL, Power BI

- Analysed 100,000+ transaction records using optimised SQL queries and Python pipelines, uncovering 5 key behavioural segments that informed strategic business decisions.
- Powered a customer retention strategy that delivered a **25% improvement in retention rate** through actionable segmentation insights.
- Built interactive Power BI reports featuring drill-down hierarchies, custom DAX KPIs, and dynamic slicers tailored for non-technical stakeholders.

Spotify Global Music Analytics Dashboard

Mar 2026

Power BI, DAX, Figma

- Modelled the Spotify Top 50 global dataset; performed multi-dimensional analysis across popularity, duration, album type, and artist metrics.
- Prototyped UI in Figma, then implemented the full dashboard with advanced DAX time-intelligence calculations and intuitive cross-filtering for exploratory analysis.

ACHIEVEMENTS & LEADERSHIP

- 1st Place — App-e-Teaser Tech Fest (50+ teams):** Built and presented a full-stack application that outperformed 50+ competing teams, demonstrating end-to-end system design, engineering rigour, and strong communication skills.