Pratyush Gautam

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PROFILE SUMMARY

Versatile GenAi Engineer | Data Engineer with almost 4 years of experience delivering scalable Big Data and GenAI solutions. Proven expertise in designing and implementing ETL pipelines, managing large datasets, and building AI-driven tools using LangChain, LangGraph, and Databricks. Adept at enabling business intelligence and LLM-based applications across pharma and CPG domains. Passionate about solving real-world problems using data and modern AI technologies.

SKILLS

GenAI & LLMs: LangChain, LangGraph, RAG, Vector Search, Fast API, Embeddings, Databricks Model Serving, OpenAI API, HuggingFace
Big Data & Data Engineering: PySpark, Spark SQL, Databricks, Delta Lake, Unity Catalog
Master Data Management: STIBO, MDM Templates, Data Quality Rules
Languages: Python, SQL, JavaScript (for MDM scripting)
Visualization: Power BI, Advanced Excel
Tools & DevOps: Git, AWS, Azure, Jira, Agile Methodology

PROFESSIONAL EXPERIENCE

Senior Analyst   Jan 2025 - Present
HCL Technology – [Amgen , Takeda pharmaceutical]   *Gurugram, India*

- Built an intelligent Asset Wizard Chatbot to answer internal queries on asset metadata and databases, featuring response caching, logging, confidence score and document preview for enhanced usability.
- Developed RAG-based GenAI solutions using **LangChain, LangGraph, Fast API** and Databricks embeddings with vector indexing and similarity search to enable accurate, context-aware internal knowledge retrieval.
- Designed and deployed end-to-end ETL pipelines with Databricks, PySpark, and SQL, optimizing scheduling and reducing downtime at the Amgen, Ohio manufacturing plant.
- Led data integration and transformation efforts to support business-critical analytics and reporting across pharmaceutical operations for Amgen and Takeda.

System Engineer - Associate Data Engineer   Nov 2021 – Jan 2025
Tata Consultancy Services Limited   *Kolkata, India*

- Contributed to multiple projects integrating GenAI solutions with Master Data Management and data engineering workflows.
- Designed and implemented scalable **ETL pipelines** using **Databricks**, **SQL**, and **Python** to streamline data migration from **SAP/PLM to MuleSoft**, supporting BAU operations across US & UK markets.
- Improved integration speed and performance by building structured templates and handling high-volume segments like **Depletion** and **Internal Orders**, processing millions of records.
- Led **Master Data Management (MDM)** initiatives using custom-designed templates and statistical logic, ensuring consistency across **50+ global regions**.
- Developed a GenAI-powered assistant to support internal teams with automated document querying, accelerating access to project insights and reducing manual effort.

RECENT KEY PROJECTS

Takeda Chatbot | LangChain, LangGraph, RAG, Fast Api, OpenAi
- Designed and developed an end-to-end AI-powered chatbot for Takeda Pharmaceuticals to query internal documentation hosted on SharePoint and AWS S3. Enabled users to ask domain-specific questions and receive accurate responses retrieved from thousands of internal documents using RAG techniques. Integrated features such as response feedback (like/dislike), caching mechanisms to reduce response time by 5x, and optimized overall performance for a seamless user experience.

Finite scheduling & optimization (FSO) Pipeline| Databricks, PySpark, Spark SQL, PI Data,
- Built a scalable ETL pipeline using Delta Lake on Databricks to automate data ingestion, transformation, and scheduling for production optimization.
  Enabled seamless integration of PI Data with Spark SQL to support real-time analytics and improve scheduling accuracy.

EDUCATION

Calcutta Institute of Engineering and Management   Aug 2016 - July 2020
Bachelor of Technology (B. Tech) - Electronics and Communication Engineering | GPA - 7.8/10

ACHIEVEMENTS

- 100% CSS (customer satisfaction score) Award, TCS.
- On the spot Award, TCS
- Service & Commitment Award, TCS