



Hi, I'm Bharat – Data Engineer | LLM Explorer | Robotics Tinkerer

I'm a **Data Engineer with over 5 years of experience**, currently working at **KLA**, where I build and optimize high-performance data pipelines using **Databricks** and **PySpark**. I work on high-volume risk data from the semiconductor industry—designing scalable ETL systems, fine-tuning partition strategies, and ensuring data reliability at scale.

Before that, I was at **Fagron**, owning the full data pipeline: ingestion, transformation, and modeling using **Snowflake**, **Airflow**, **DBT**, and **PySpark**. I've also worked with **Azure Data Factory**, **Kafka**, and **Power BI**, and I'm highly fluent in **Python**, **SQL**, and **Apache Spark**.





Academics & Research

I earned my **Master's in Computer Science from Wichita State University**, where I maintained a **3.5 GPA**. I dove deep into data systems, algorithms, and AI. Along the way, I worked on some fun and challenging projects:

-  **SHA_BOT** – A GenAI chatbot built with **RAG (Retrieval-Augmented Generation)** using **OpenAI embeddings** and **Azure Cognitive Search**. Just experimenting with LLMs, vector search, and semantic document querying.
 -  **Robotic Grasping with PyBullet** – Built a simulation for object grasping using a Sawyer robotic arm. Wrote the full control logic, used inverse kinematics, and built reward-based grip tests. It's basically a mini robotics lab for AI training.
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Volunteering & Leadership

I'm passionate about community impact and learning beyond the classroom:

-  Built a **personal expense tracker** in a hackathon using Python + Power BI.
 -  Helped coordinate a **Guinness World Record event** to raise awareness for disabilities.
 -  Volunteered with the **UHV Cell** in college, organizing activities around ethics, empathy, and mindfulness.
 -  Active **IEEE member**—attended and supported workshops, tech talks, and coding events.
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Fun Facts

- I'm currently on **F1 OPT**, married, and preparing for **H4 EAD**.
- I **love traveling**—new cities, new stories.
- I'm a **problem-solver at heart**—whether it's fixing broken ETL or hacking on robotics late at night.