

# Akhil Ghosh

Data Scientist

Email : akhiltghosh@gmail.com

Mobile : 630 750 2260

linkedin.com/in/akhilghosh

www.akhiltghosh.com

Data scientist with 3+ years building analytics platforms, ETL pipelines, and ML-adjacent tooling in healthcare. At AbbVie, shipped products used by 200+ weekly users, consolidated billions of rows across 57 databases, and built LLM-accelerated workflows on 40M-patient claims data.

## SKILLS

---

- **Programming & Platforms:** Python, SQL, TypeScript, R, FastAPI, React/Next.js, Astro, Snowflake, Postgres, Trino, Hadoop/Impala, Azure Data Factory
- **Data & ML:** ETL/ELT Pipeline Design, Data Modeling, Power BI (DAX, Semantic Models, Dataflows), NLP, LLM Workflows, Computer Vision, Survival Analysis, scikit-learn, PyTorch
- **Modeling & Analytics:** Survival Analysis, Statistical Modeling, Cohort Definition, NLP, LLM Workflows, Computer Vision, Feature Engineering, Business Logic Translation

## EXPERIENCE

---

- **AbbVie Inc. (Contractor via Kru-Marc Inc.)** North Chicago, IL  
*Software Engineer* *Feb. 2024 – Present*
  - **Analytics Platform Leadership:** Led a Power BI migration from fragmented MicroStrategy reporting to integrated dashboard suites serving 200+ weekly users. Managed two junior developers, codified undocumented sales and call-planning logic, and drove adoption through live stakeholder working sessions.
  - **Data Platform Consolidation:** Consolidated 57 healthcare databases and billions of rows into a single high-performance real world data application, replacing 13 legacy apps and lowering server costs. Built standardization pipelines for drugs, conditions, and procedures to improve cross-database consistency.
  - **JMDC Migraine Pipeline:** Built a SQL and LLM-assisted pipeline for a 600K-patient migraine cohort from a 40M-patient Japanese claims database. Handled translation, market basket definition, line-of-therapy logic, and Kaplan-Meier adherence analysis across hospital and payer claims.
  - **Internal Analytics Tooling:** Built internal analytics tooling by porting Kaplan-Meier survival logic from an external R Server workflow into reusable Power BI DAX UDFs, removing a separate dependency and improving supportability for downstream teams.
  - **Analytics Copilot Prototype:** Built an internal LLM-powered analytics copilot prototype to answer dashboard logic questions, explain metric definitions, and support BI ticket workflows. Designed prompt orchestration and retrieval patterns around governed analytics context so business users could self-serve without bypassing data controls.

## PROJECTS

---

- **akhiltghosh.com:**
  - **Personal Website & Technical Portfolio:** Built an interactive personal website with a conversational homepage, artifact-driven memory surfaces, and a writing archive with custom reading interfaces for technical posts. Added LLM orchestration and tool-routing patterns, plus a fine-tuned conversational voice that responds in my writing style.
- **TradeYard Landscape AI Pipeline:**
  - **Computer Vision Pipeline for Marketplace Data:** Built a production-minded computer vision MVP for tradeyard.io that segments landscape regions from yard photos and AI mockups, maps them to sourcing categories, retrieves catalog candidates, and generates a draft bill of materials with human review.

## EDUCATION

---

- **Georgia Institute of Technology (Part-time, Asynchronous)** Atlanta, GA  
*M.S. in Computer Science (Machine Learning Specialization)* *Aug. 2024 - Current*
- **Loyola University Chicago** Chicago, IL  
*M.S. in Data Science* *Aug. 2022 - Dec. 2023*
- **Loyola University Chicago** Chicago, IL  
*B.S. in Statistics & B.S. in Biology* *Aug. 2018 - May 2022*