

NUMAN KARIM

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SUMMARY

Intrapreneur and technology leader bringing a combination of technical depth and product vision, with a track record of designing and integrating data / AI products in dynamic and regulated settings. Built and led AbbVie's data science and engineering organization from 8 to 100+ people over 10 years. Operated with startup mindset inside a large enterprise. Shipped 20+ data and AI products end-to-end across clinical trial operations and R&D. Building two independent ventures in sportsbook signal intelligence and AI-powered micro-learning. Thrives at the intersection of builder and leader.

EDUCATION

M.S. Applied Data Science · University of Chicago Dec 2021

B.S. Statistics & Integrative Biology · University of Illinois at Urbana-Champaign May 2016

Strategy & Organizational Leadership · Northwestern University

EXPERIENCE

Director, Data Science & Analytics — Data Engineering & Technology Operations Sep 2025–Present

AbbVie · Abbott Park, IL

- Lead team of 20 engineers & managers across a portfolio of 20+ data products; own technical design, platform strategy, and development for 5,000+ R&D users representing eight figures in cumulative value delivered
- Oversee data delivery across the full clinical development spectrum including clinical trial operations, risk monitoring, patient safety and medical monitoring, and real-world data
- Driving enterprise data infrastructure modernization and agentic AI platform development for automated data harmonization in clinical statistics and statistical programming

Associate Director, Data Science & Analytics — Data Products & Solutions Oct 2022–Sep 2025

AbbVie · Abbott Park, IL

- Led enterprise transformation of patient safety and medical monitoring departments; integrated self-service medical surveillance across 200+ concurrent clinical trials; reduced time-to-deliverables by up to 80%
- Established data product development operating model: POC → MVP → productization, and served as Business Systems Owner for the R&D analytics stack, governing platform selection, vendor relationships, and product design
- Scaled blended team to 10+ and delivered 10+ greenfield products from 0→1, spanning anomaly detection, risk-based monitoring, enrollment prediction, and next-best-action models for clinical site engagement

Early Career — Data Scientist I → II → Senior Data Scientist → Manager Jun 2016–Oct 2022

AbbVie · Abbott Park, IL

- Progressed from individual contributor to people manager over 6 years while strategically injecting ML capabilities and analytics products in a spreadsheet economy and greenfield environment
- Realized seven-figure cost savings through embedding data science value capture framework, and leading change management, departmental process re-design, and retirement of legacy technology systems.

VENTURES

Founder Apr 2026–Present

[TwoMinuteBit \(2mb\)](#)

- Building a multi-agent diagramming engine that can generate intuitive diagrams that adapt to a wide range of disciplines, topics, ideas, and frameworks (e.g. business strategy, space, money, fun facts, biology)
- 2mb is a micro-learning platform delivering concise, diagram-driven lessons across professional and scientific domains, digestible in two minutes or less; launching Q4 2026

Founder Oct 2025–Present

[GhostLeg.ai](#)

- Architected sports betting intelligence database cross-referencing traditional sportsbooks and prediction markets (Kalshi / Polymarket)
- Curated and normalized multi-source odds data into an enterprise-grade Neon database; derived custom analytics (CLV, line velocity, market divergence) and Monte Carlo simulation models for signal scoring
- Launched two monetized products: Signal Dashboard and REST API delivering processed data and signal payloads

COMMUNITY AND INDUSTRY LEADERSHIP

Founder

Mar 2024–Present

[DuxData.com](https://duxdata.com)

- Created a data science education curriculum focused on intrapreneurial data science, building ROI-generating data products, and data science teams as profit centers
- Scaled to hundreds of active students across the global data science and analytics community

Founding Committee Member

Jul 2023–Present

[Pharma Data Science Conference \(PharmaDS\)](#)

- Founding organizing committee member for the Pharmaceutical Data Science (PharmaDS) Conference, an annual industry forum hosted by the New England Statistical Society convening AI, ML, and data science leaders across pharma, biotech, and the FDA

AWARDS

AbbVie PRISM Award · Jun 2025 — Advanced signal detection platform for Patient Safety surveillance

AbbVie President's Award · Jun 2023 — Anomaly detection algorithm for Risk Based Monitoring in Clinical Operations

AbbVie Development Award · Apr 2022 — Self-service analytics platform for Medical Monitoring & Patient Safety

AbbVie President's Award · Oct 2020 — Patient burden prediction model for Parkinson's Program

SKILLS & TECHNOLOGY

Languages: Python · SQL · R

AI & Machine Learning: Claude API · Chroma · Pinecone · Multi-agent pipelines · AWS SageMaker · Dataiku

Cloud & Infrastructure: AWS · Cloudflare · GitHub Actions · Azure DevOps · Modal

Data Engineering: Airflow · dbt · Informatica · Snowflake · Neon · PostgreSQL

Analytics & Visualization: Spotfire · Plotly Dash Enterprise · Tableau · Power BI