



AI without the Hype

September 17, 2025

Presenter: Frank Mendoza

CANADA

VANCOUVER
CALGARY
WINNIPEG
OTTAWA
TORONTO

UNITED STATES

MINNEAPOLIS
OMAHA
CHICAGO
COLUMBUS
CLEVELAND
ATLANTA
DALLAS
AUSTIN
HOUSTON

MEXICO

GUADALAJARA
AGUASCALIENTES

SOUTH AMERICA

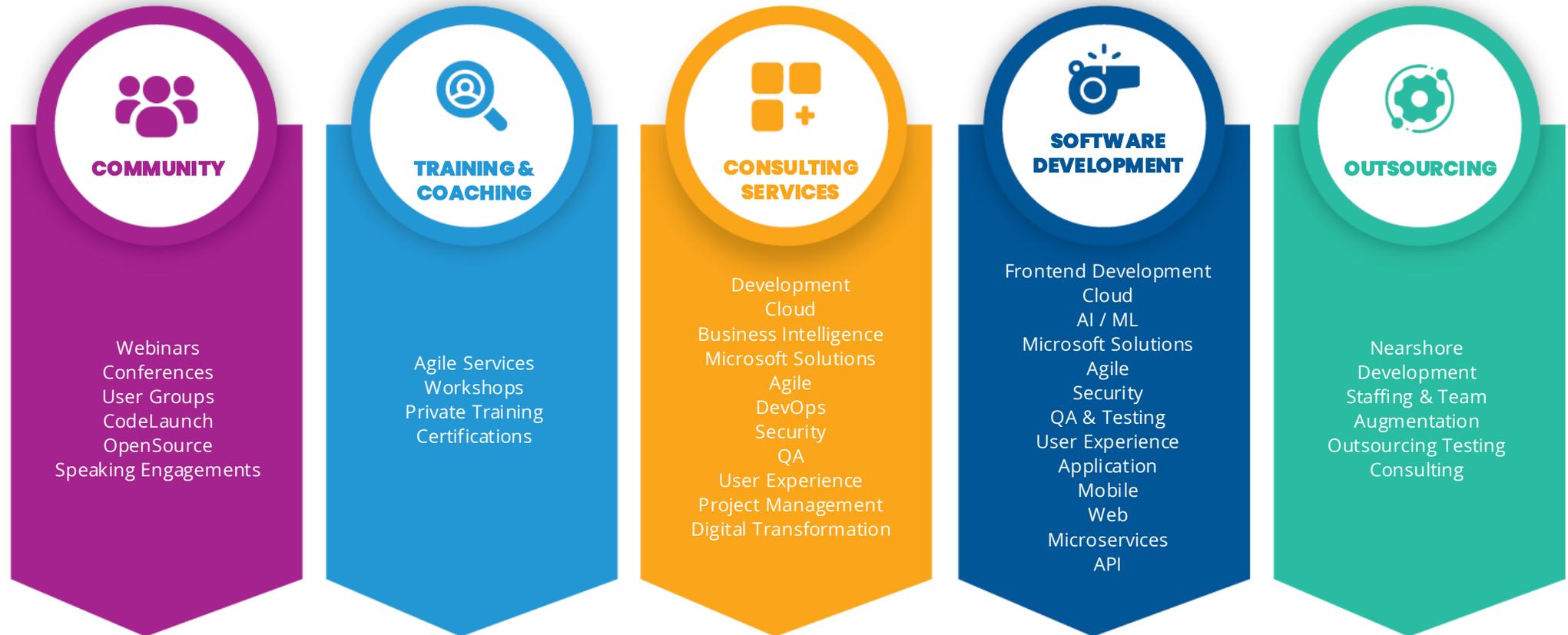
SANTIAGO
BUENOS AIRES

INDIA

PUNE



Service Offerings



Introductions



Frank Mendoza **Principal Consultant** **AI/ML Practice Lead – ATX**

- Certified AI/ML Engineer Professional
- Analytics Expert Network (IA)
- Co-Chair of Austin AI Alliance

Objectives & Goals

Objectives:

- **Demystify AI** by breaking down key concepts
- Showcase **real-world applications** that deliver measurable business value
- Provide practical understanding of how to **apply AI in their own organizations**

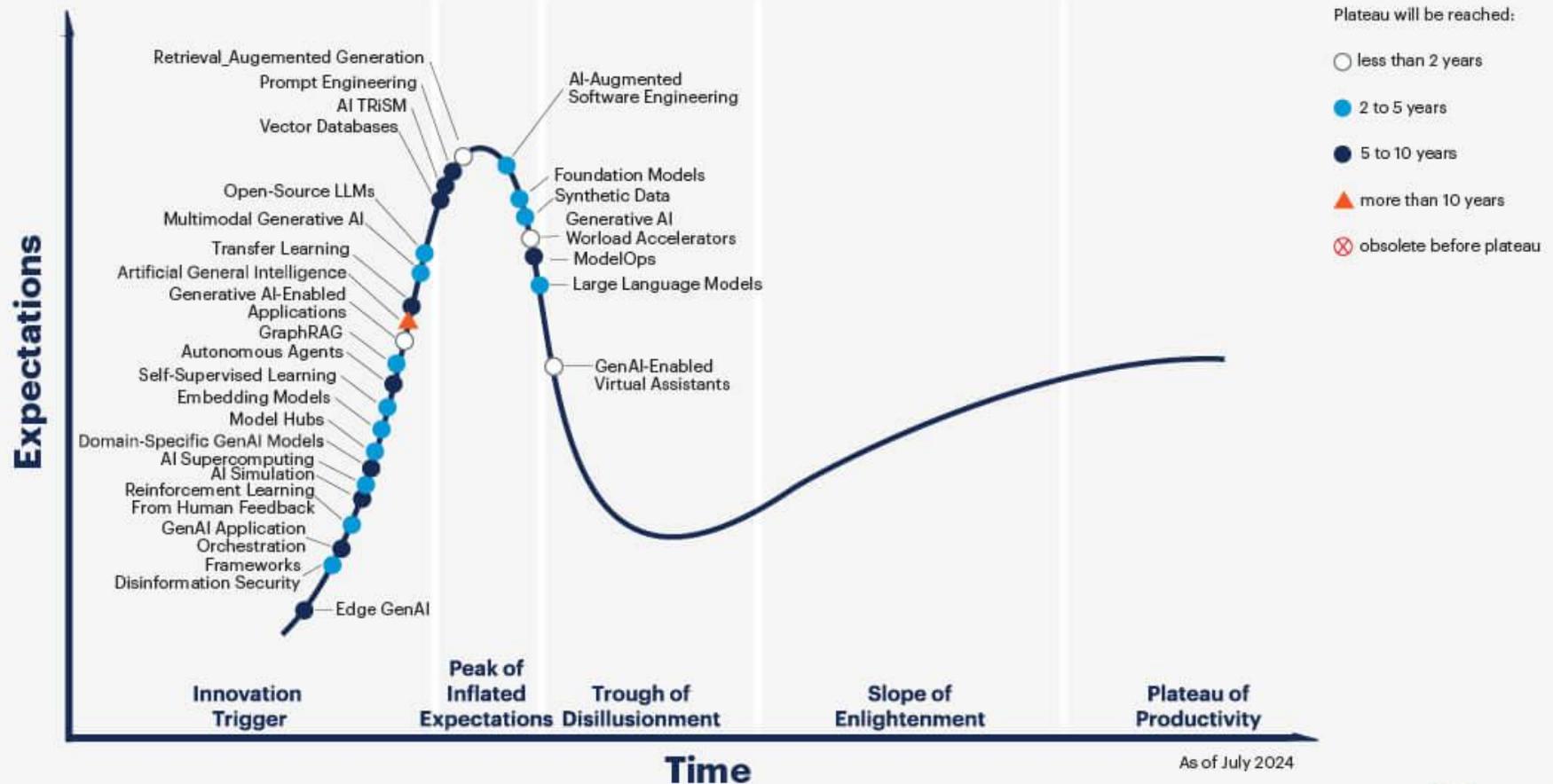
Goal:

- Help attendees recognize the difference between buzzwords and usable tools
- Share AI use cases to illustrate how AI is solving tangible problems across industries
- Encourage thoughtful adoption of AI by focusing on clarity, context, and business impact

Gartner Hype Cycle: What Actually Works in the Real World

Cutting through buzzwords to showcase practical, proven AI solutions

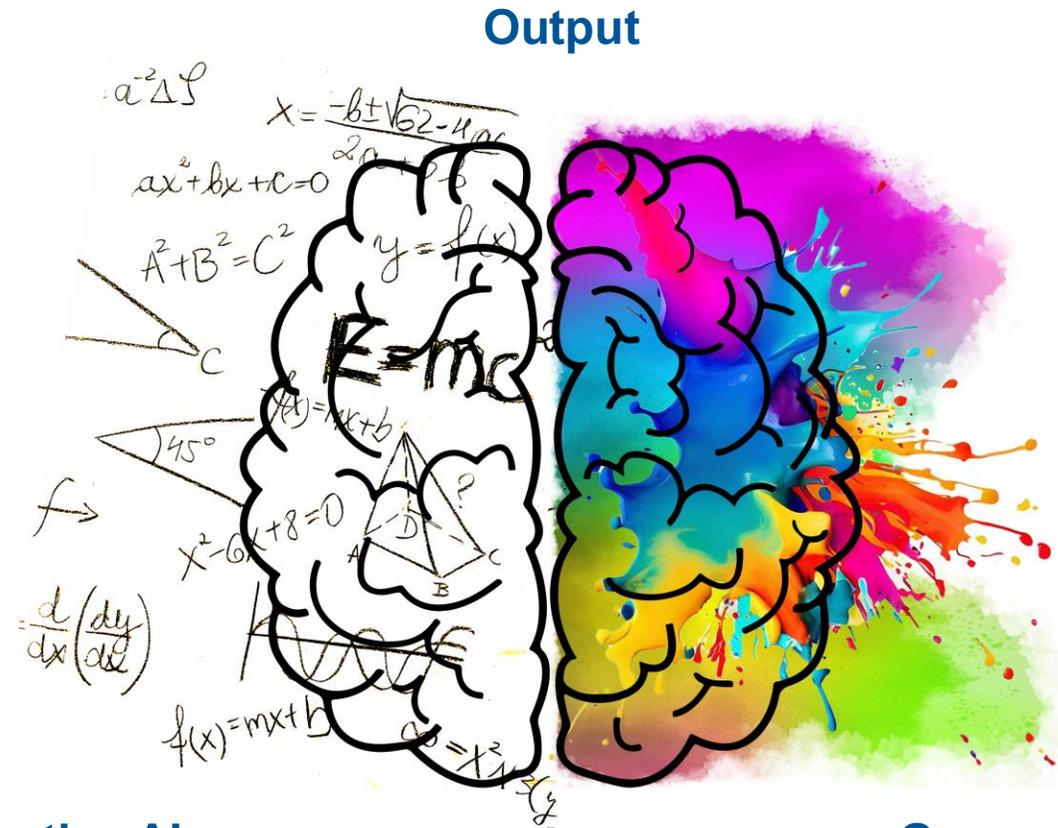
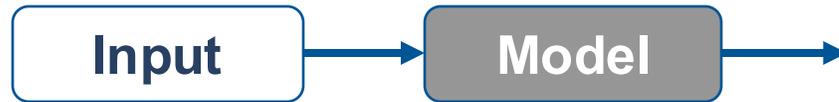
Hype Cycle for Generative AI, 2024



Source: Gartner
Commercial reuse requires approval from Gartner and must comply with the Gartner Content Compliance Policy on gartner.com.
© 2024 Gartner, Inc. and/or its affiliates. All rights reserved. GTS_3291353

What Do We Mean by 'AI'?

Different tools for different problems



Output

Discriminative AI

- Number
- Class
- Probability

Generative AI

- Text
- Image
- Audio

AI is not just a Chatbot

AI is not one thing—it's a toolbox of technologies to optimize existing processes



- **Predictive Analytics**
- **Process Automation**
- **Computer Vision**
- **Recommender Systems**
- **Fraud Detection**

Key AI Concepts We'll Reference Today

AI is about reducing friction and improving accuracy



- Large Language Models (LLM)
- NLP (Natural Language Processing)
- OCR (Optical Character Recognition)
- IoT (Internet of Things)
- RAG (Retrieval-Augmented Generation)
- Agents

Why Context Matters in AI Solutions

LLMs are powerful—but they don't know your business



- LLMs are trained on public data—they don't know your proprietary content
- They can hallucinate or give confident but incorrect answers
- Context windows are limited—long conversations can lose relevance
- Solutions like RAG and fine-tuning help bridge the gap

Real-World Case Studies

Louis Riel School Division – Predictive Analytics for Student Success

Education | Machine Learning for Early Intervention



Client: Louis Riel School Division, a K–12 public school district

Industry: Education (K–12 Public School)

Challenge: Difficulty identifying at-risk students early enough to intervene effectively

AI Solution: Machine learning regression models to predict student performance, paired with a BI dashboard for educators

Louis Riel School: Key Results



- Early identification of at-risk students → enabling proactive support
- Data-driven resource allocation → targeted interventions
- Public sector innovation → showcased partnership with Google
- **Metrics:** Improved timing of interventions and qualitative educational benefits

Medtronic – Real-Time Data Pipelines for Manufacturing

Healthcare | IoT + Predictive Analytics for Factory Operations



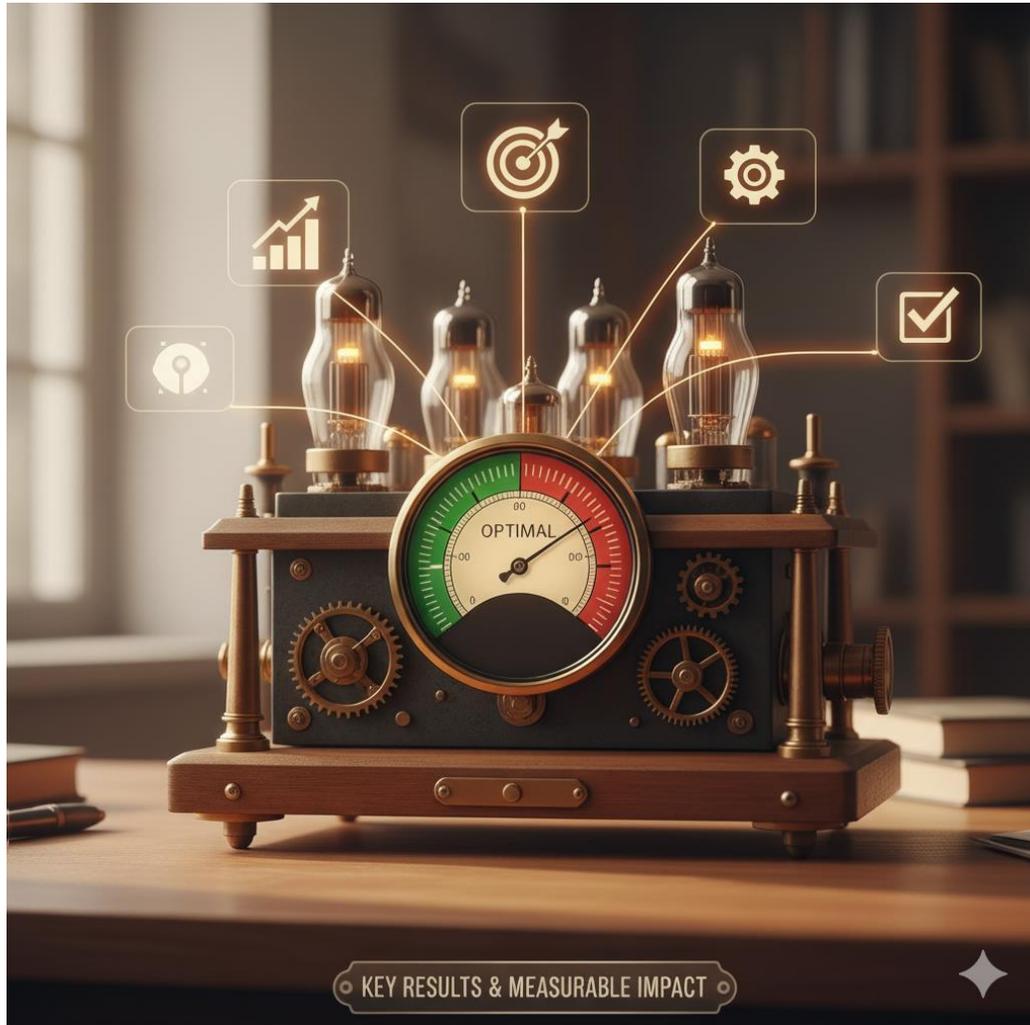
Client: Medtronic, a global leader in medical device manufacturing

Industry: Healthcare (Medical Device Manufacturing)

Challenge: Factory operations relied on delayed, paper-based data, limiting visibility and responsiveness in production

AI Solution: Implemented IoT sensors and Kafka-based streaming pipelines to enable real-time data flow and predictive maintenance

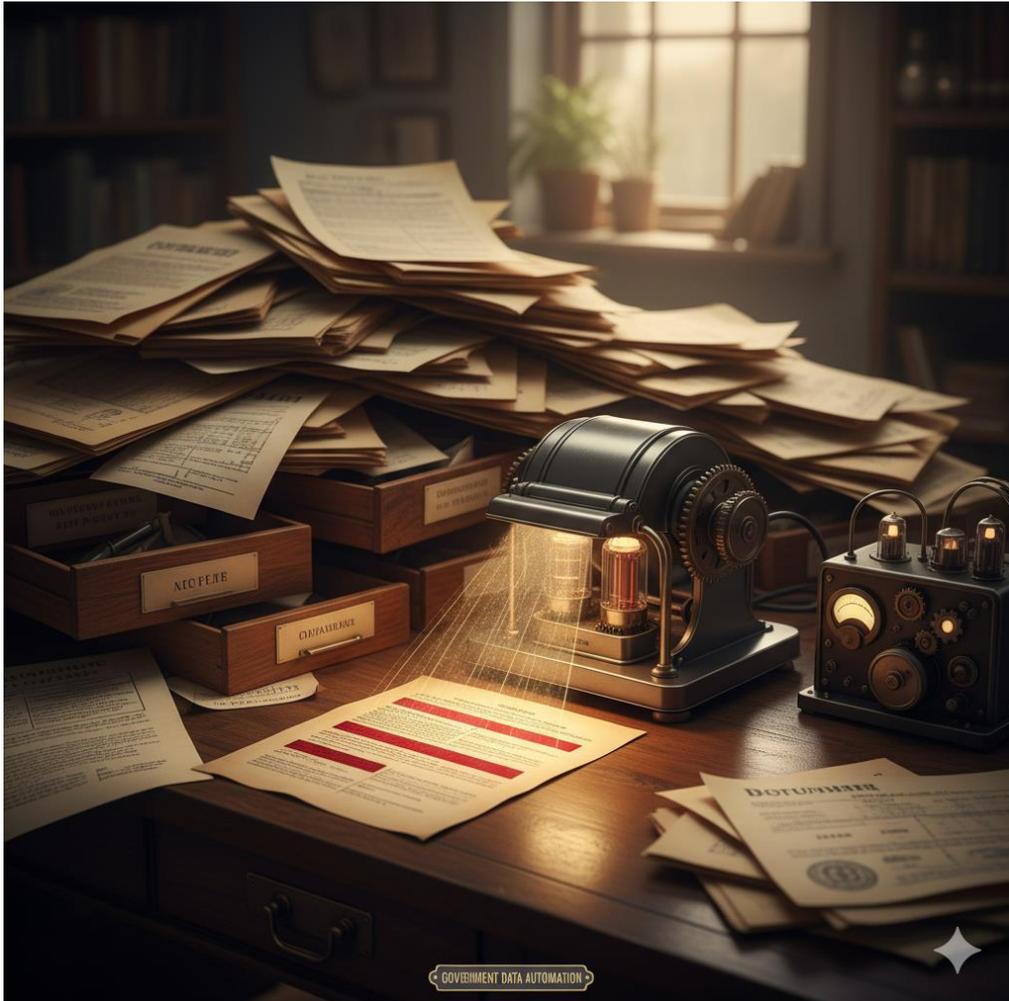
Medtronic: Key Results



- Real-time visibility into production (eliminated paper lag)
- Reduced downtime through predictive maintenance alerts
- Operational savings realized from automation and fewer errors
- **Metrics:** Qualitative improvements in productivity and uptime

CATALIS – Advanced Document Redaction Solution

Public Sector | NLP + OCR for Scalable Redaction



Client: CATALIS, a GovTech SaaS provider supporting public sector agencies

Industry: Public Sector (GovTech SaaS)

Challenge: Manual redaction of sensitive documents was slow, costly, and error-prone

AI Solution: Leveraged AWS NLP and OCR to automate text redaction using a serverless cloud architecture

CATALIS: Key Results



- Major efficiency boost—significantly more documents redacted per hour
- Reduced costs by removing dependency on on-premises infrastructure
- Scalable solution enabled new revenue stream across agencies
- **Metrics:** “Significant” efficiency gains and cost savings

Lakeshore Learning – Agentic AI for Sales Enablement

EdTech | AI-Powered Lead Generation



Client: Lakeshore Learning, a leader in educational materials

Industry: EdTech Manufacturing

Challenge: Manual lead generation was slow and limited in scope

AI Solution: Agentic AI web agents crawl public funding databases to identify new opportunities and automate lead generation

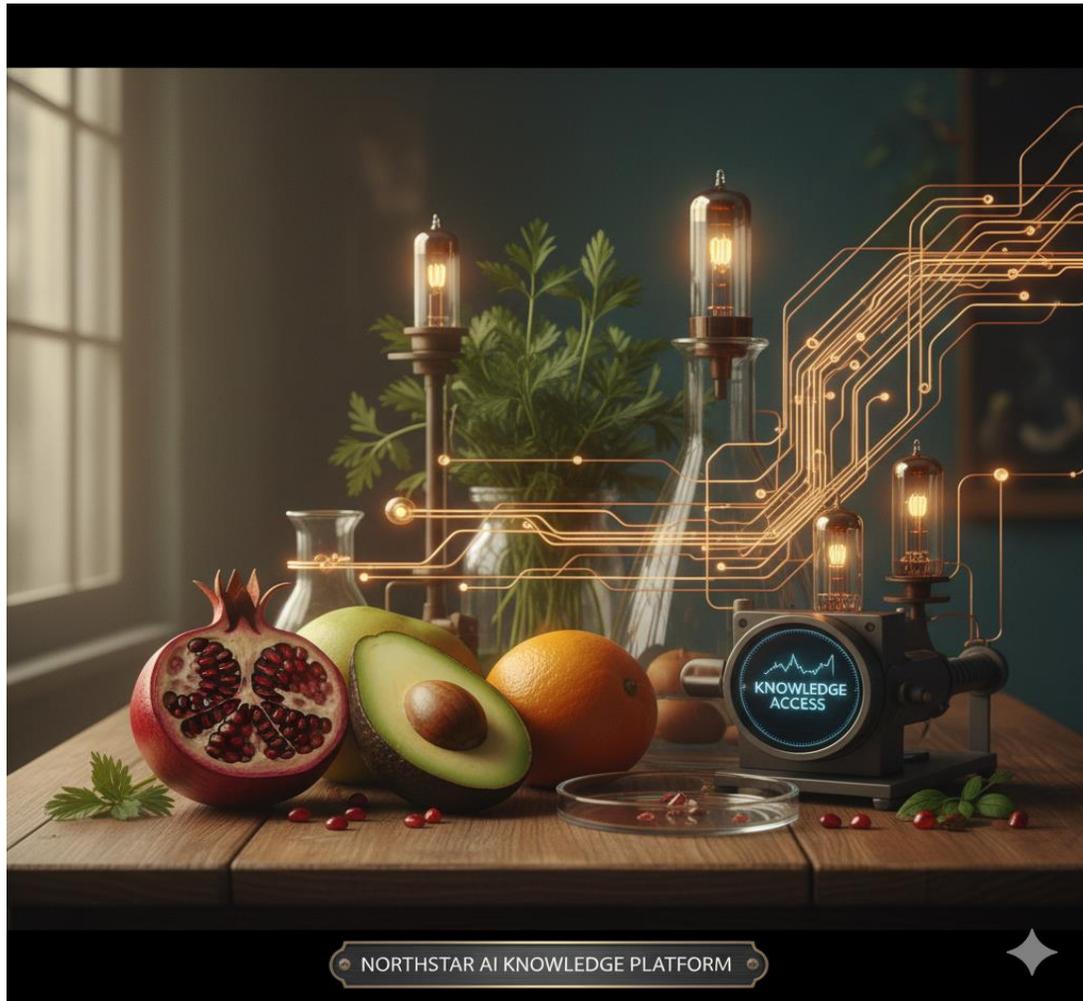
Lakeshore Learning: Key Results



- Manual work cut down → faster lead discovery
- New funding opportunities identified → broader reach
- Sales team refocused on closing deals → higher productivity
- **Metrics:** Time saved on research, increased number of qualified leads, improved sales team efficiency

Institute of Food Technologists – AI Knowledge Platform

Nonprofit | AI-Powered Knowledge Access



Client: Institute of Food Technologists, supporting food science professionals

Industry: Nonprofit (Food Science Association)

Challenge: Members struggled to access proprietary research quickly and reliably

AI Solution: Retrieval-Augmented Generation (RAG) chatbot and AI-powered search over proprietary content in Azure

Institute of Food Technologists: Key Results



- Instant access to research library (seconds vs. hours)
- Reliable, source-cited answers (improved trust)
- Streamlined product R&D (automated nutrition label generation)
- **Metrics:** Improved efficiency and user satisfaction

AI without the Hype



Q&A