

INNOVATION INTELLIGENCE SUITE

This project explores how AI/ML can
accelerate insight generation for R&D teams

Developed as a Data Science + AI Bootcamp capstone project (2025)

PROBLEM

Consulting R&D teams rely heavily on manual work to track trends, technologies, and startups and link them to client needs.

AI tools can reduce research time by ~30%,
but only ~10% deliver real business value (BCG, 2025).

PERSONA NARRATIVE

- Innovation Strategy Consultant (Automotive)
- Works with emerging tech, startups, patents, and research to advise automotive clients
- Needs faster, automated intelligence to turn complex signals into actionable recommendations



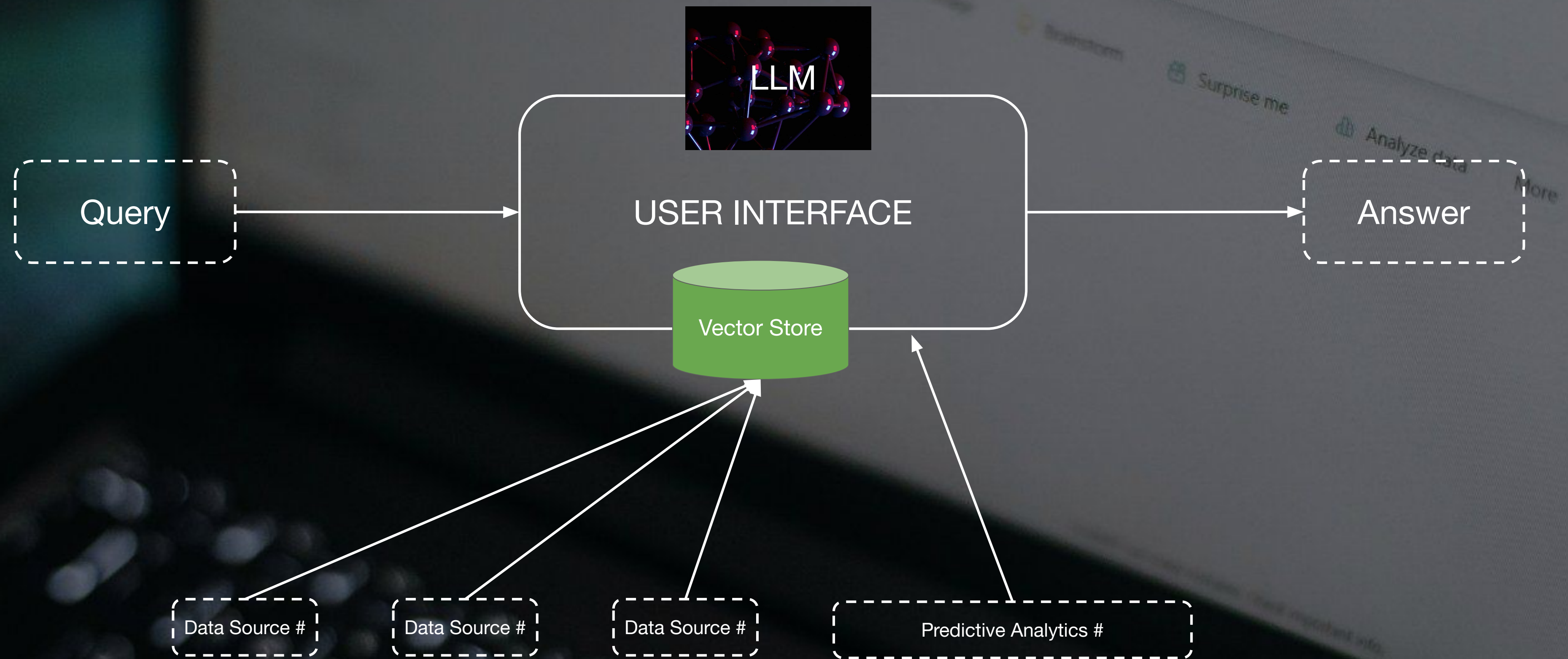
SOLUTION

We built an Innovation Intelligence Suite (B2B2C) MVP that combines intelligent RAG with tech maturity prediction to help R&D teams identify what's next in automotive AI -
faster and with greater precision.

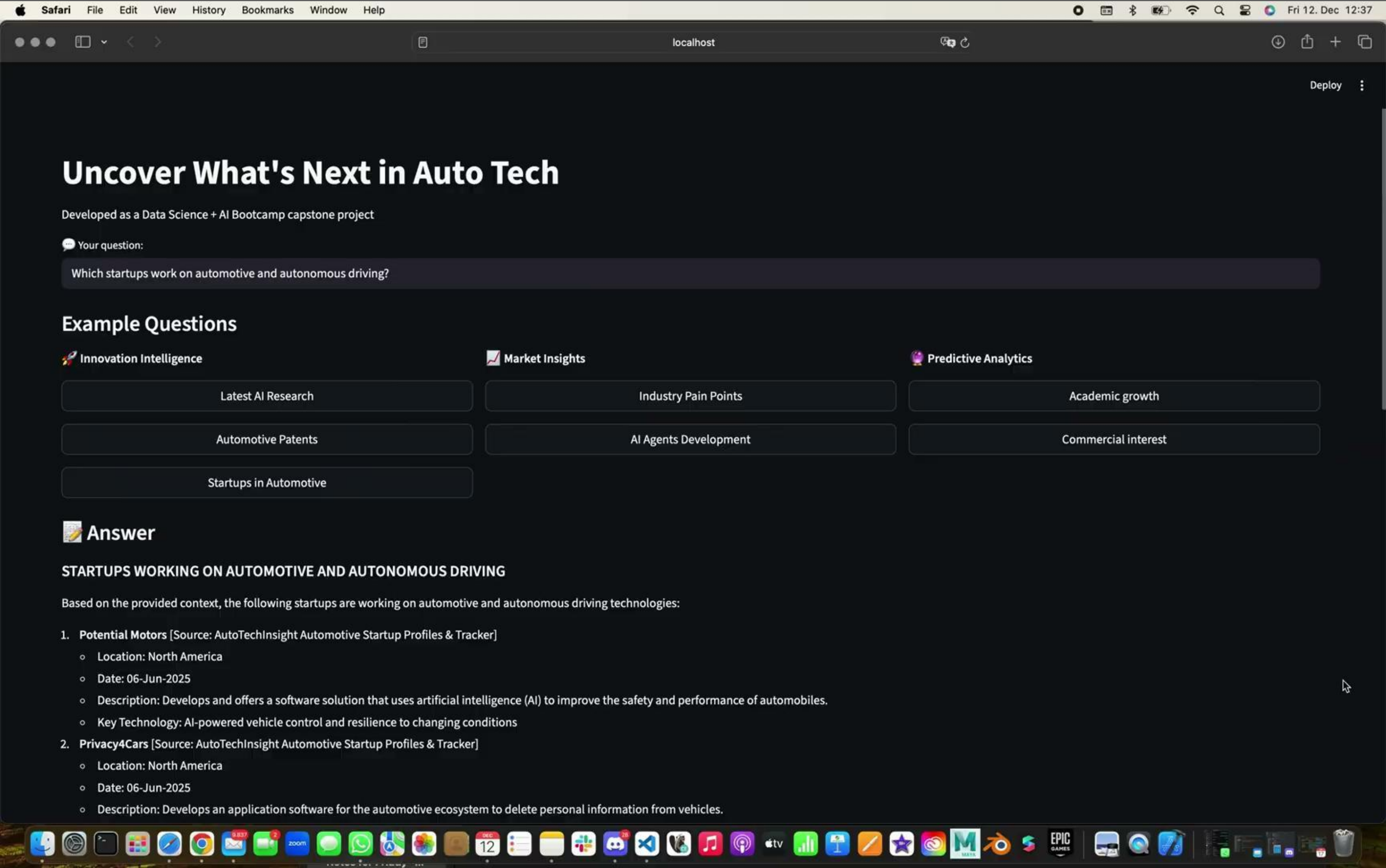
SOLUTION FEATURES

- Query and summarize automotive technology documents (18,000+ chunks)
- Retrieve insights on specific innovation topics from research papers, tech reports, startups and patent data (2025)
- Source attribution with relevance scoring
- Template-based answer generation with full transparency
- Topic modeling and trend forecasting based on academic and commercial interest (25,000+ patent and research papers) (Fraunhofer ISI-inspired)

SOLUTION ARCHITECTURE



SOLUTION DEMO



Find me on
Github.com



THE SOURCES + EDA

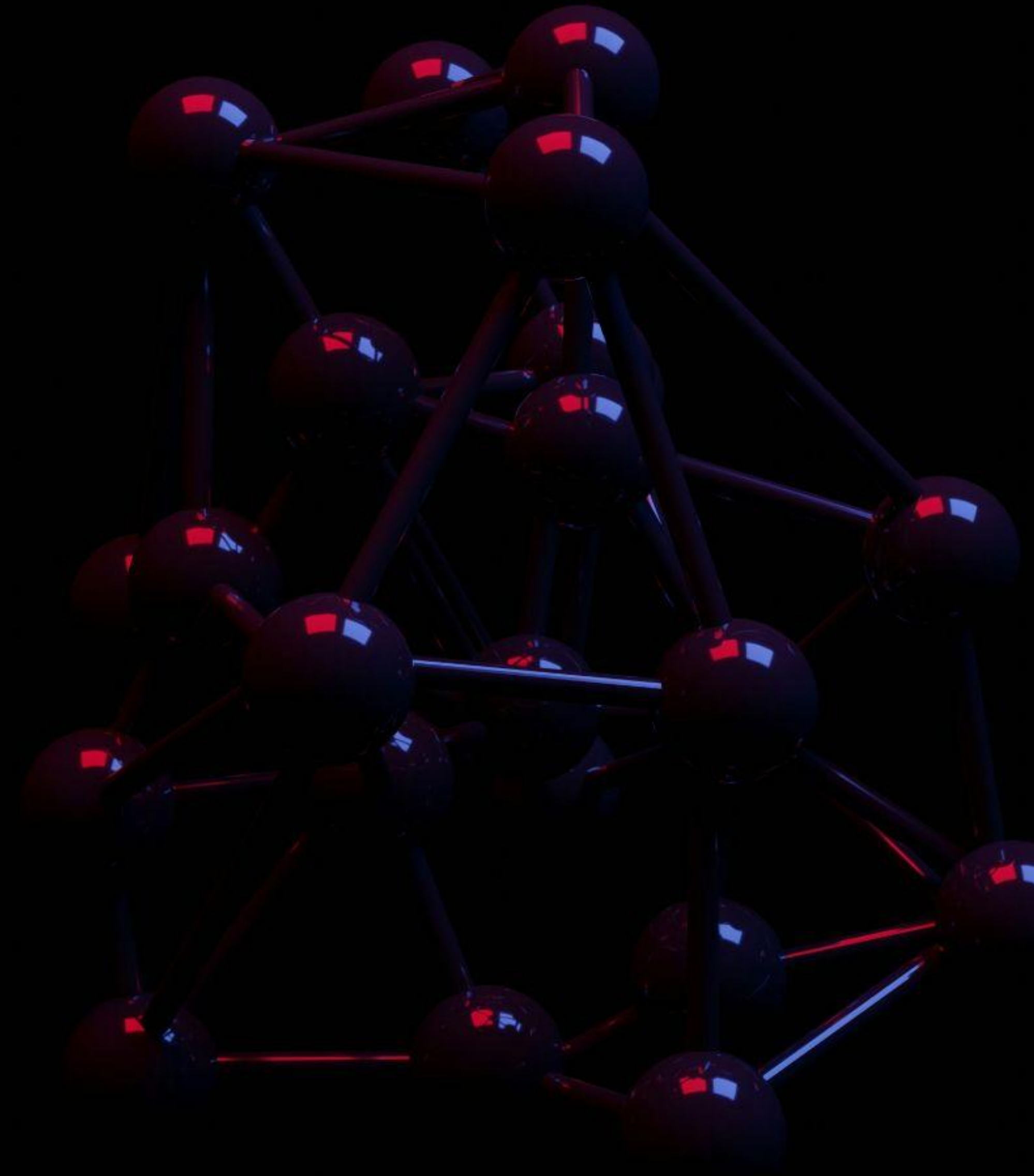
RAG

- Patents/journal articles: Lens.org
- Reports: World Economic Forum, BCG, McKinsey (2025)
- Startup datasets: S&P Global, Seedtable LLC

(+18,000 chunks)

Predictive Model

- Paper: Lens.org
- Patents: Lens.org
- News: GDELT 2.0




WHAT'S NEXT

Business Evolution:

- Product-market fit via R&D focus groups
- Automotive specialization as competitive edge
- Domain specific impact metrics

Technical Advance:

- Specialised LLMs for automotive reasoning
- Multi-modal retrieval & strategic reasoning
- AI agents for strategic workflows (Q&A to tasks)
- Ethics by design



**Domain expertise +
Value mapping =
Scalable AI impact**

Addressing where
+70% of AI projects
fail to scale (McKinsey
2025)

CONNECT WITH THE TEAM



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Accounting &
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