

# 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

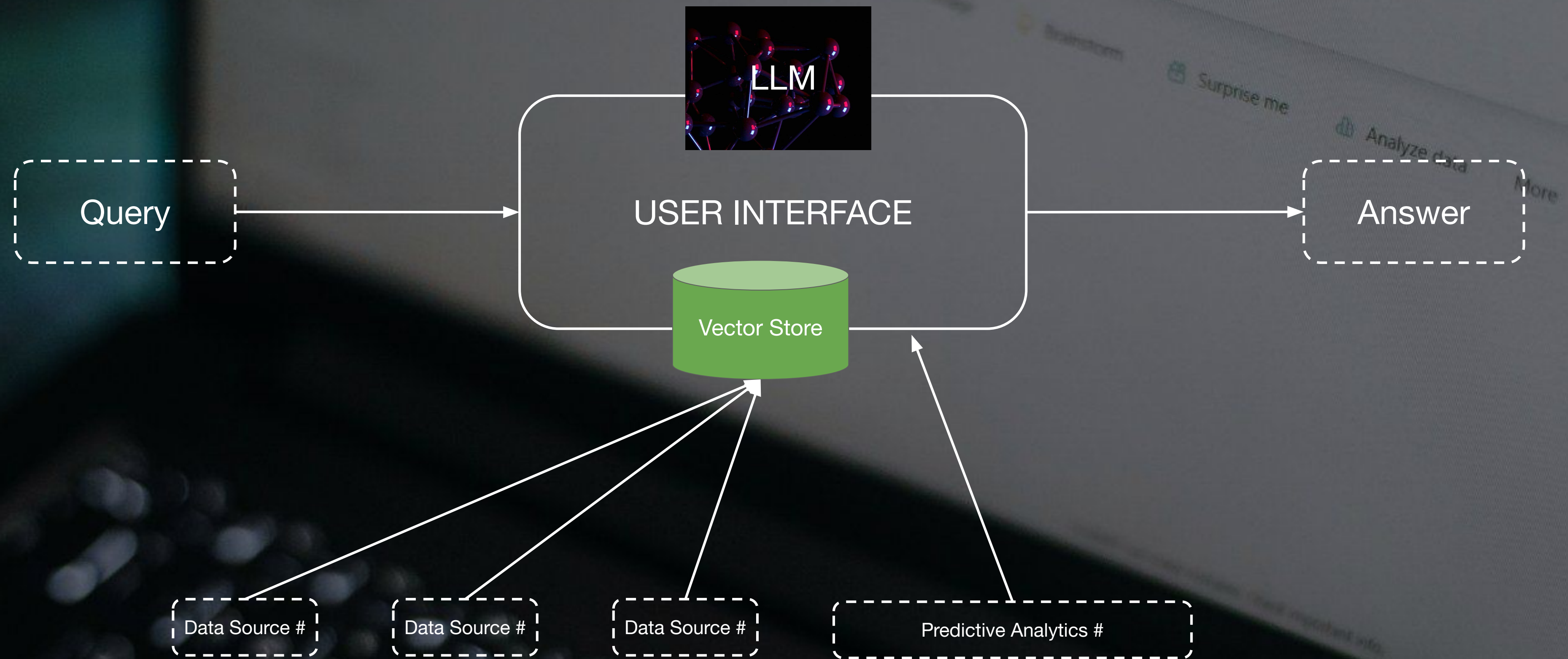
We built an Innovation Intelligence Suite (B2B2C) MVP that combines intelligent RAG with tech maturity prediction to help R&D teams identify what's next in automotive AI -  
**faster and with greater precision.**

# SOLUTION FEATURES

- **Intelligent query processing** that classifies and routes requests to appropriate modules
- **Multi-source synthesis:** Query and summarize automotive technology documents (18,000+ chunks)
- **Domain insight retrieval:** Get insights on specific innovation topics from research papers, tech reports, startups and patent data (2025)
- **Transparent attribution:** Source citation with relevance scoring
- **Template-based generation:** Structured answer generation with full transparency
- **Trend analysis:** Topic modeling and trend forecasting based on academic and commercial interest (25,000+ patent and research papers, Fraunhofer ISI-inspired)

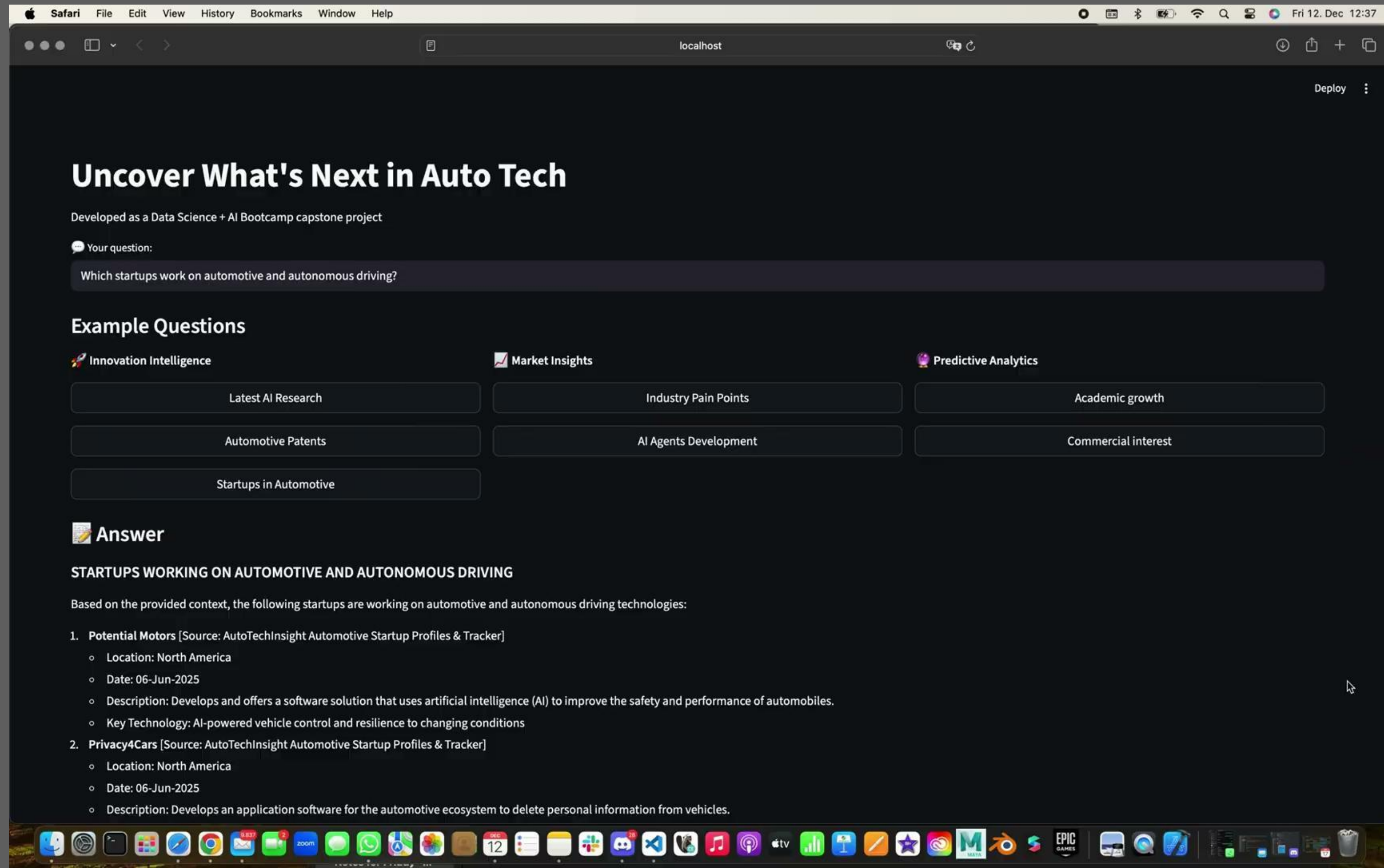


# SOLUTION ARCHITECTURE





# SOLUTION DEMO



Find me on  
**Github.com**



# THE SOURCES + EDA

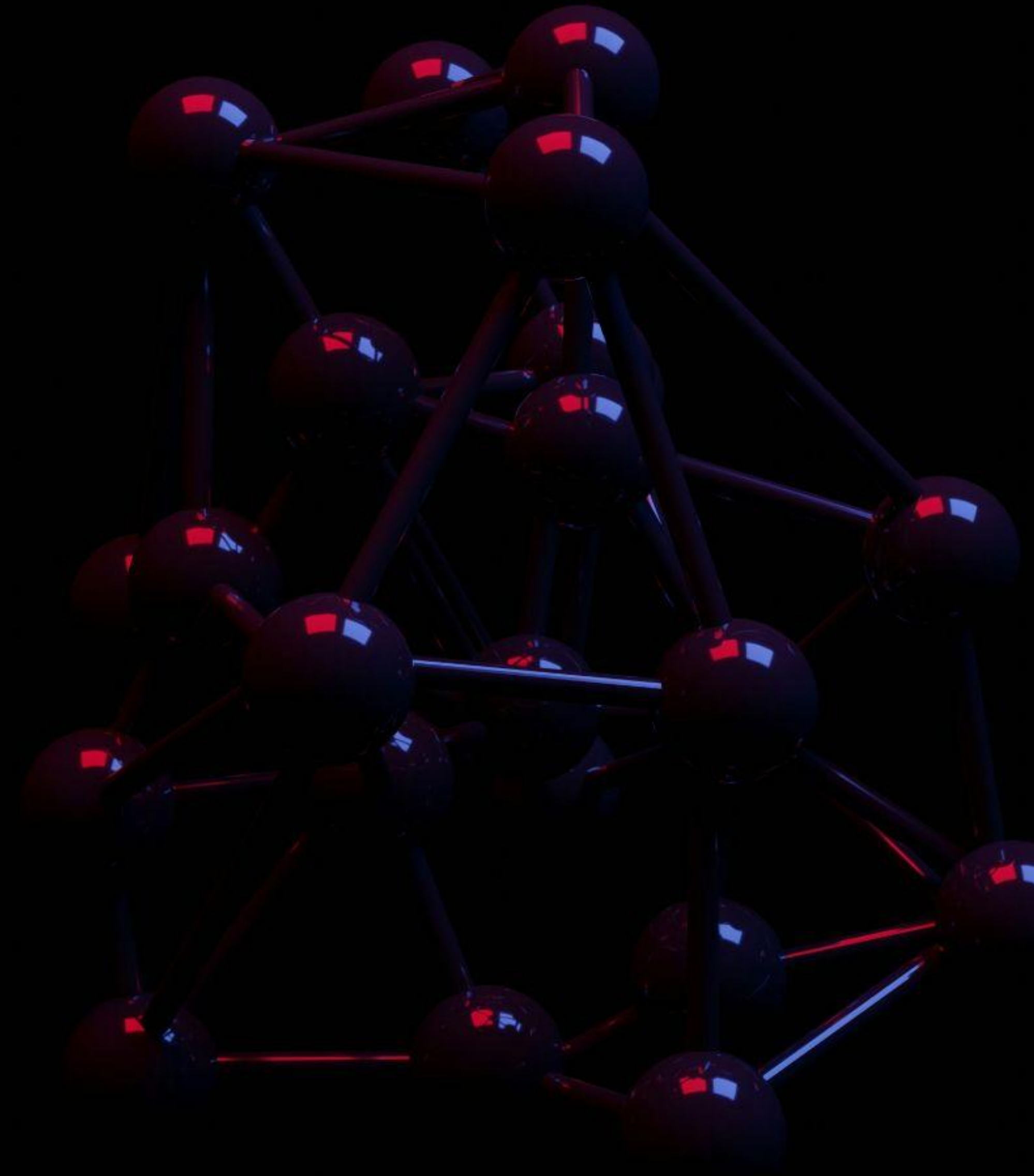
## **RAG**

- 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



**Siri Rääf**

*Background:  
Accounting &  
Business  
Analytics*



**Mert Asaroglu**

*Background:  
Vehicle  
Development  
Engineering + Trend  
& Innovation  
Research*



**Timo Wolf**

*Background:  
Innovations &  
Product  
Development +  
HR*