



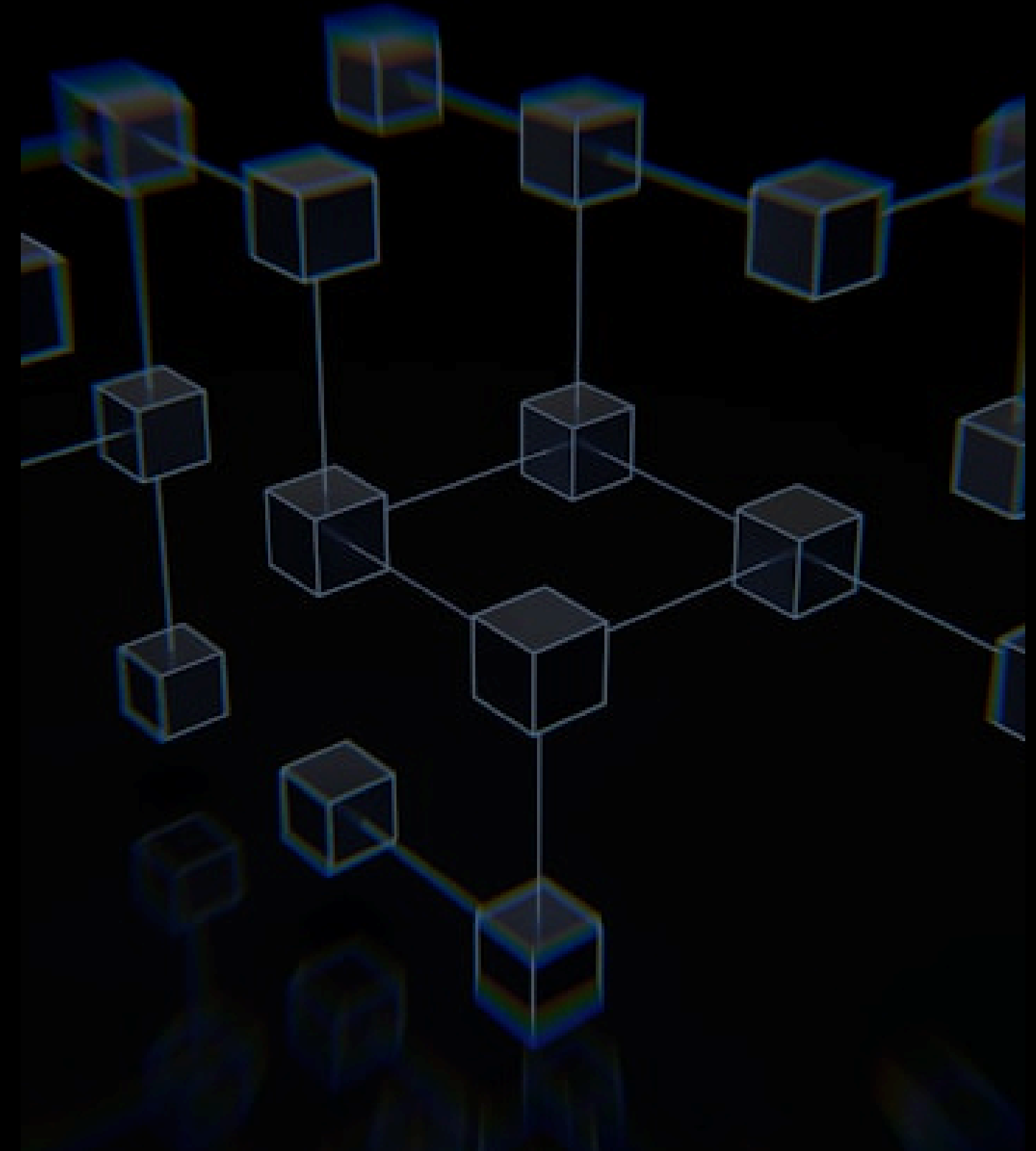
From Signals to Decisions: Scaling AI in Finance

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DLQF

Today's Journey

- I. The Evolution of Trading & Markets
- II. The Rise of Computing & AI - LLMs as Language interface
- III. Where AI Performance Breaks Down or Expands! Data is Key
- IV. LLMs as Signal Generators
- V. From Signals to Decisions
- VI. LLM Behavior Under Uncertainty
- VII. The Five Sins of Financial LLM Evaluation
- VIII. Key Takeaways & What Comes Next



An Introduction to Trading

A Brief History

Trading, a form of communication as old as human civilization. Emerged as a by-product of specialization and exclusive access to resources. The oldest evidence of human trade is found in Mesopotamia (modern day Iraq) dating back to the 21st century BC to the Assyrians.

Early Trading Methods include:



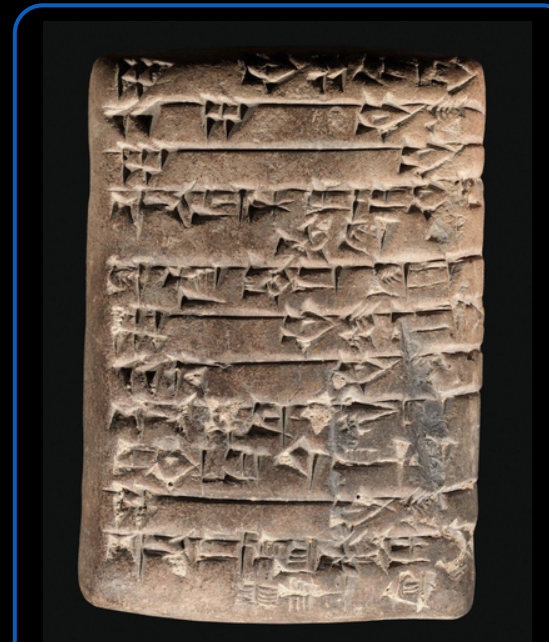
Long-distance trade **on foot**



Use of domesticated **animals** (horses, camels) for transport



Barter systems evolving into commodity money, shell money, and eventually coins and paper currency

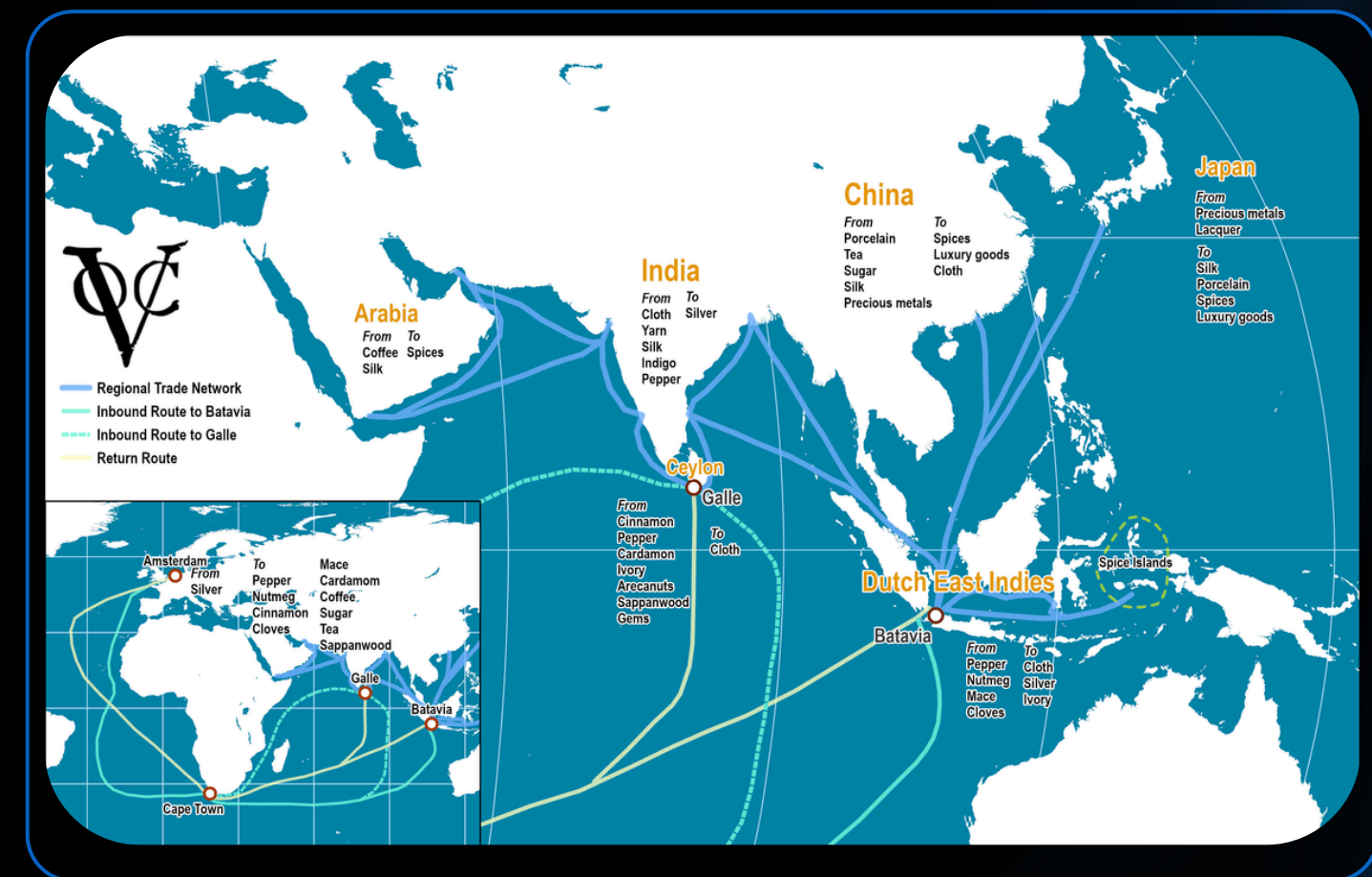


A Tablet containing an account in Sumerian cuneiform describing the receipt of oxen



Exchange and Capital Raising Through the Ages

Monopolies and Funds (1600–1780s): Rise of early joint-stock companies such as the Dutch East India Company (VOC), established in 1602, and the British East India Company (1600). These entities pioneered large-scale trade finance, issuing shares to investors and dominating maritime commerce.



Exchange and Capital Raising Through the Ages



Globalization (1780s – Growth Until 1914): International trade expanded rapidly with improved transport and communication networks. In 1851, Paul Reuter (founder of Reuters) used a submarine telegraph cable beneath the English Channel to transmit market data between London and Paris, replacing his earlier network of carrier pigeons.

Great Reversal: Disruptions caused by WWI, the Great Depression (1929), and WWII halted globalization.



Return of Globalization (1980s–1990s): Deregulation, free-market policies, and technological advancements reignited global capital flows.

Boom in Electronic Markets (2000s): Rise of fully digital trading platforms, high-frequency trading, and algorithmic strategies.

Reversal ? (2025): Rise of Tariffs and nations shifting to self reliance in the midst of global chaos and uncertainty may cause a reversal

Just as social media democratized the **attention** economy, AI is now democratizing **knowledge** and knowledge-based expertise.

Example: From Traders to Machines to Models

Early 2000s: electronic trading crushed manual execution. Costs and commissions collapsed. Execution desks shrank by ~90%. Traders didn't all vanish, but most had to shift. Some moved to quant, risk, or ops. Some stayed in prop or niche trading. Human execution became marginal. Commissions collapsed 10x.

Now: AI is doing the same to quants and developers. Models write code, test ideas, and take over repetitive work.

Pattern:

Routine work gets automated.

Fewer people do more, at higher leverage.

Lesson:

Old edge = doing the work fast.

New edge = building the system that does it.

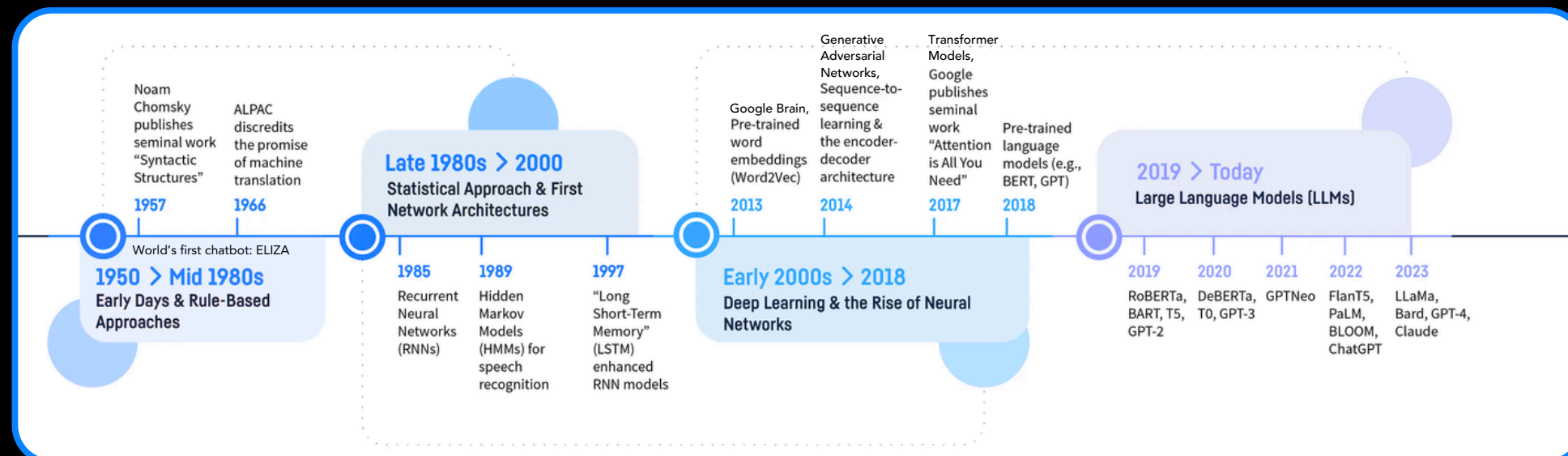


The rise of Smart Machines

Over the past couple of decades computers have advanced in a way that it has reached the point of rivaling human intelligence. This revolution is called artificial intelligence.

Artificial Intelligence (AI): computer systems dedicated to performing tasks close to human intelligence, such as speech recognition, language translation, and visual perception. It is the intelligence of software as opposed to the intelligence of humans.

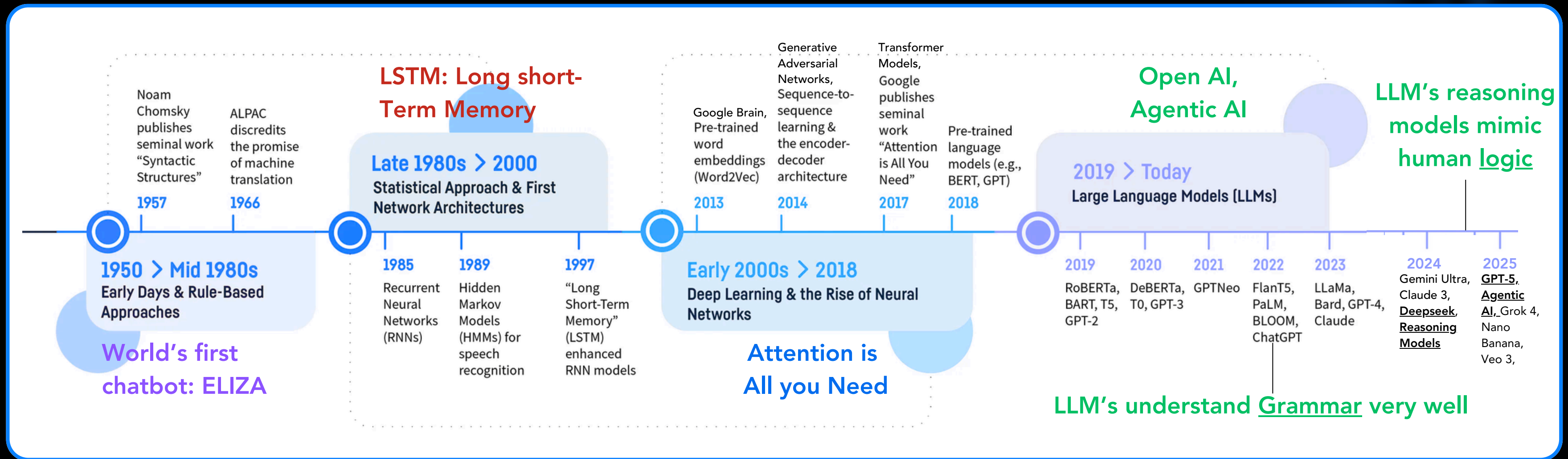
Language AI refers to a subfield of AI that focuses on developing technologies capable of understanding, processing, and generating human language. The term Language AI can often be used interchangeably with natural language processing (NLP) with the continued success of machine learning methods in tackling language processing problems. We use the term Language AI to encompass technologies that technically might not be LLMs but still have a significant impact on the field.



The rise of Smart Machines

LLMs as Language interface - new PC/iphone moment

Over the past couple of decades computers have advanced in a way that it has reached the point of rivaling human intelligence. This revolution is called artificial intelligence.



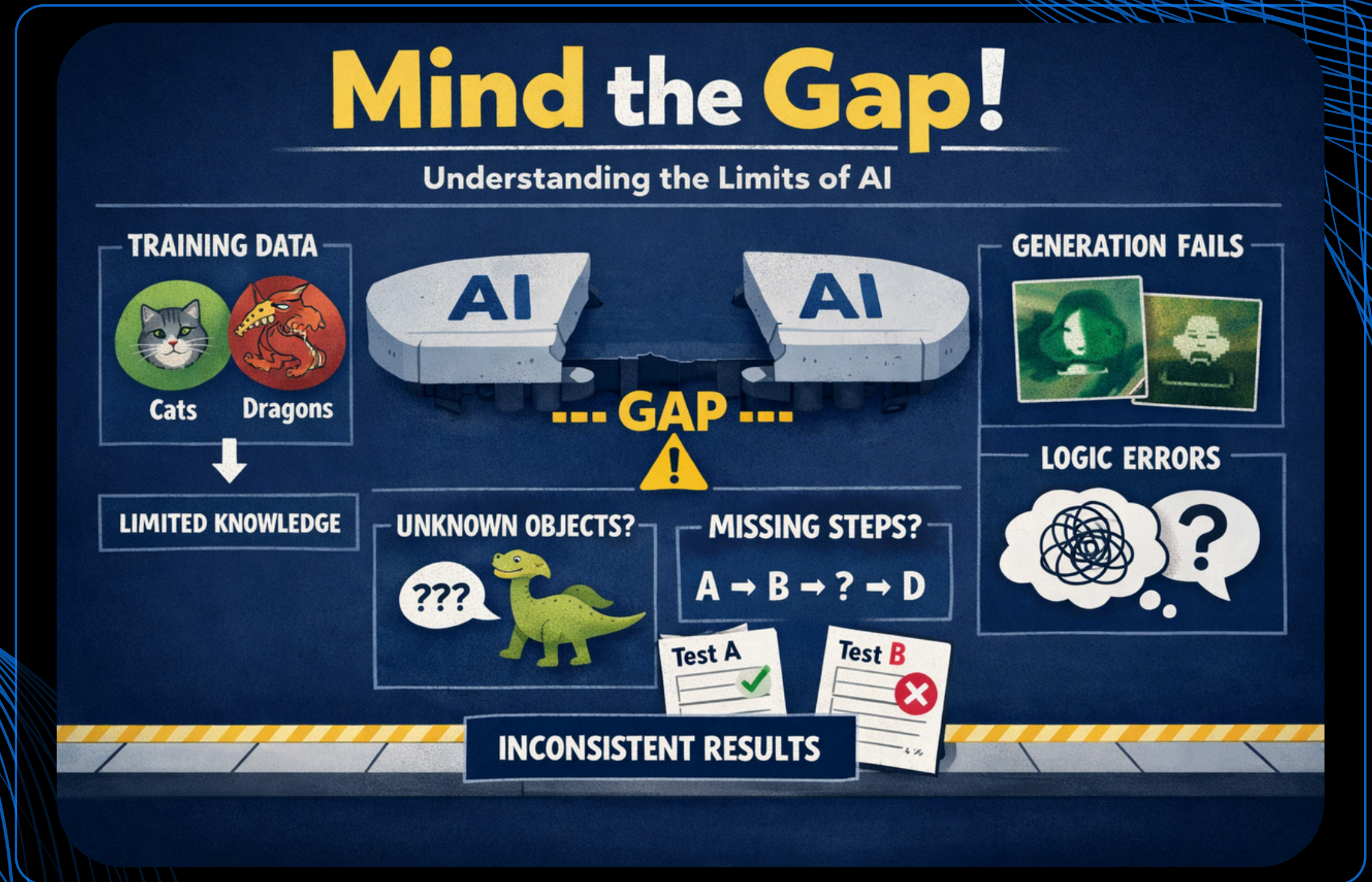
Where AI performance breaks down

AI models do not fail everywhere. They fail in specific gaps.

They perform well on tasks and data they have seen, but struggle when examples, steps, or reasoning patterns are missing. This often appears as **hallucinations**: confident outputs that are incorrect or incomplete.

You find these gaps through experimentation. You fill them by adding targeted examples and by breaking complex tasks into smaller, explicit steps. This reduces missing reasoning and makes the model aware of what it does not know.

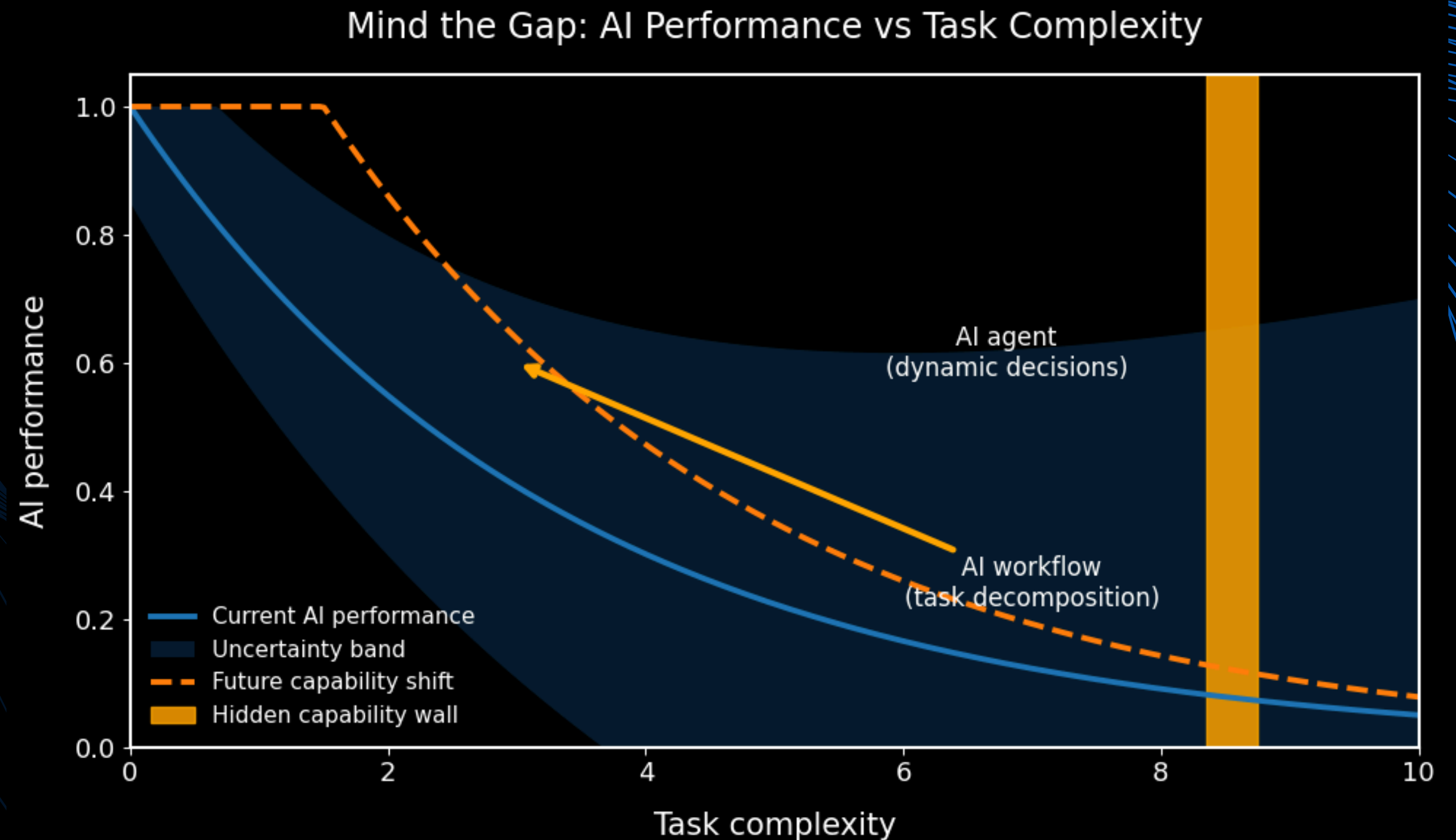
Mind the gap between apparent capability and true understanding.



In the **opposite** side - The real **superpower** is this: elite data from elite experts. Example: If we can capture the reasoning patterns, intuition, and niche knowledge of top mathematicians, we can fine tune an LLM into something that has never existed before, a single coherent mathematical intelligence built from many elite minds. Instead of rare expertise being fragmented across individuals, it becomes unified in one system. That is super math. That is a super mathematician. Same in **Coding**.

Where AI performance breaks down

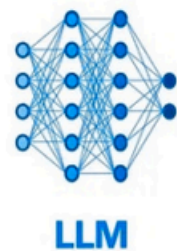
- AI performance drops as task complexity increases, with growing uncertainty (Gap) and hallucinations.
- Model improvements shift capability to the right, but performance decay remains.
- Some complexity levels form a hidden capability wall that models may not reliably cross.
- **AI workflows (Algorithm)** keep humans in control. Tasks are manually broken into smaller steps with explicit logic to stay in high-reliability regions.
- **AI agents** automate this process. They decide how to decompose tasks, call tools, and act autonomously, but still face uncertainty and limits.



Chaos midst simplicity

After training: We can generate text by predicting one word at a time

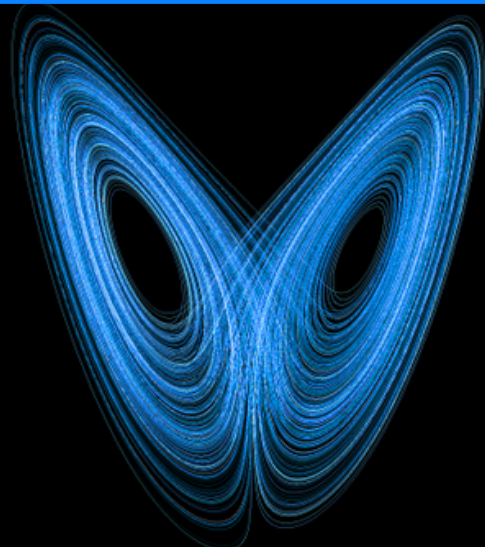
A trained language model can
Input



Word	Probability
speak	0.065
generate	0.072
politics	0.001
...	...
walk	0.003

Output at step 1

LLMs are an example of what's called "Generative AI"

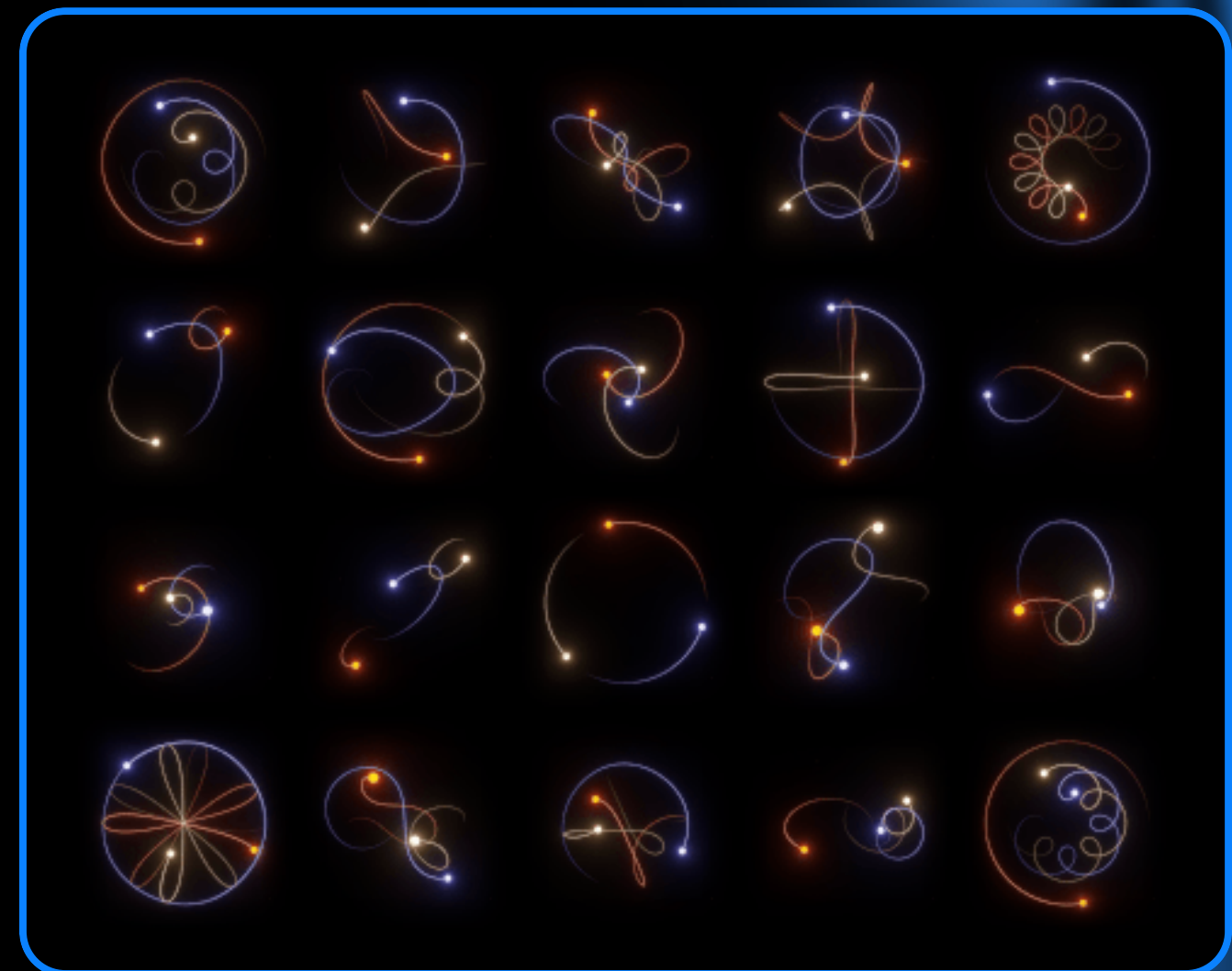


The next token prediction is very simple in principle but the results are too complex to comprehend

Word	Probability
ability	0.002
text	0.084
coherent	0.085
...	...
ideas	0.041

Output at step 2

Three body problem rises from very simple rules of gravity



Financial LLM Applications

LINGUISTIC TASKS

Linguistic tasks harness the power of AI to process vast amounts of unstructured text data, enabling better decision-making in finance.

SENTIMENT ANALYSIS

Sentiment analysis utilizes AI to gauge market sentiment from news articles and social media, providing valuable insights for traders and investors.

TIME SERIES REASONING

Time series reasoning involves analyzing historical financial data, helping predict future trends and inform investment strategies through advanced AI models.

Refs: Lee et al. (2025) FinLLMs; Bridging Finance and AI Survey (2025); From Deep Learning to LLMs (2025)

Harnessing LLMs for Sentiment Analysis

SCALING INSIGHTS

Large Language Models (LLMs) enhance sentiment analysis by generating nuanced insights from unstructured data, transforming how financial narratives are interpreted and acted upon.

Refs: FinSentLLM arxiv.org/abs/2509.12638 | ChatGPT and the Stock Market (2024) | What is Financial Sentiment? (2025)



Beyond Sentiment Analysis

STRUCTURED EVENTS

Structured Event Representation focuses on extracting critical details about who did what to whom in financial contexts.

KNOWLEDGE GRAPHS

Knowledge graphs leverage LLMs to extract enterprise relations, enhancing our ability to visualize complex interconnections in finance.

REASONING MODELS

Fin R1 and Fino1 are advanced reasoning models that implement a chain of thought specifically tailored for finance-related predictions and analyses.

Refs: Fin-R1 (2025) | Fino1
arxiv.org/abs/2502.08127 | Knowledge Graph-Driven Forecasting (2025) | Structured Event Representation (2025)

Integrating AI Insights into Portfolio Management

AI-DRIVEN DECISION MAKING

Leveraging LLM insights enhances portfolio optimization, allowing for smarter investment strategies that adapt to market changes and investor goals.

Refs: Black-Litterman + LLM Views (2025); HARLF (2025); Decision-informed NNs (2025); Sentiment-augmented RL (2025)

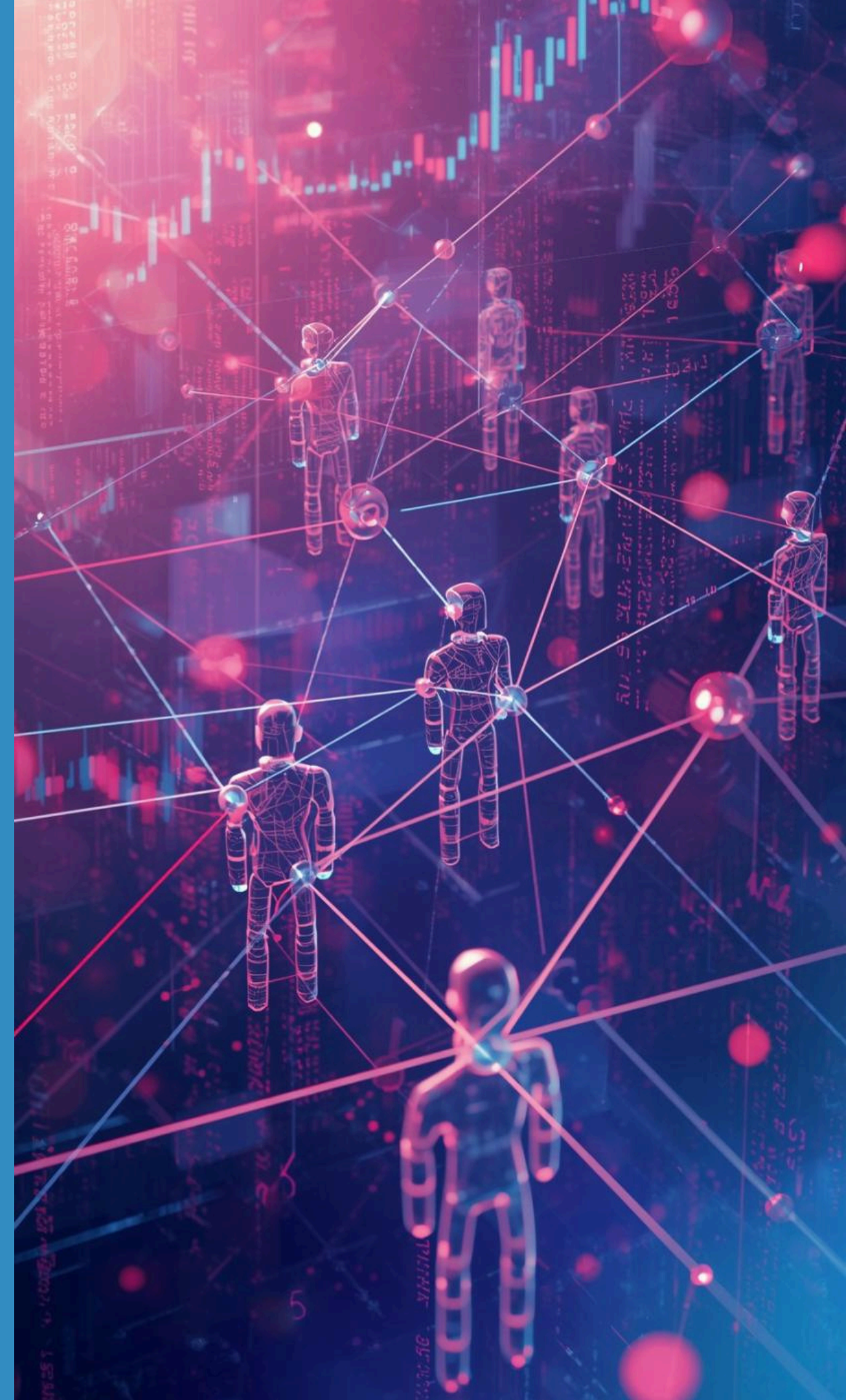


Advancements in Multi-Agent Trading Systems

TRADING AGENTS COLLABORATION

Multi-agent systems enhance trading by allowing agents to collaborate, analyze market conditions, and execute trades based on shared intelligence and strategies.

Refs: TradingAgents arxiv.org/abs/2412.20138 | MASS (2025) | MASFIN arxiv.org/abs/2512.21878 | Trading-R1 arxiv.org/abs/2509.11420



Foundation Models Transforming Financial Time Series

REVOLUTIONIZING DATA ANALYSIS

Financial time series data requires **specialized models** to address its unique characteristics, including noise, non-stationarity, and regime changes.

Refs: Kronos arxiv.org/abs/2508.02739 | FinCast (2025) | Re(Visiting) TSFMs (2025) | Dual Adaptation ICML 2025



Integrating News and Price Data for Insights

MULTIMODAL DATA FUSION

This approach enhances forecasting by combining textual news data with price movements, enabling better volatility predictions and informed trading decisions.

Refs: Cross-Modal Temporal Fusion (2025); Multimodal Language Models (2025); FinMultiTime (2025)

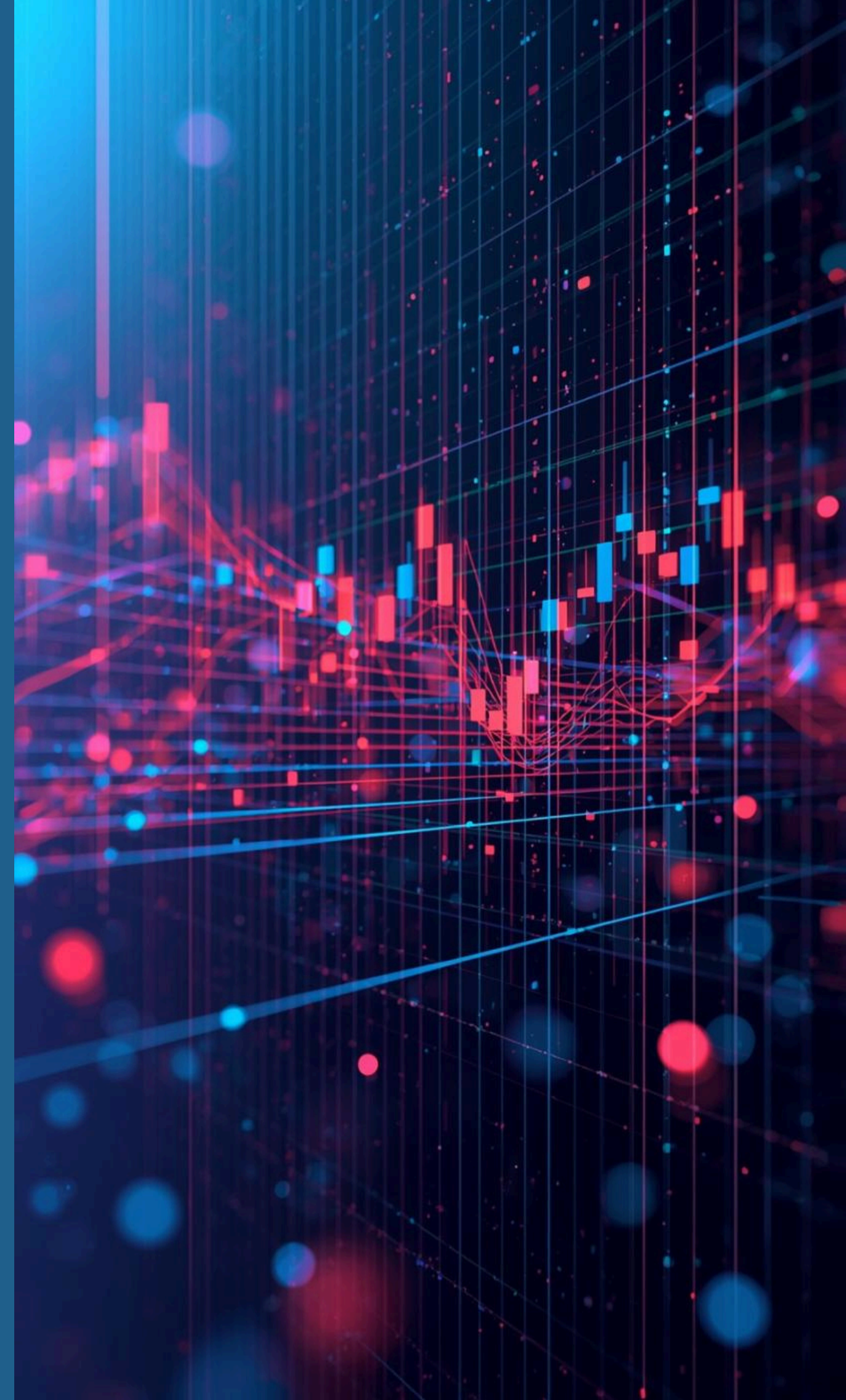


Understanding Market Microstructure Through AI

VISUALIZING LIMIT ORDER BOOKS

AI models analyze **market microstructure**, optimizing trade execution by interpreting limit order books, enhancing liquidity and pricing efficiency in real-time markets.

Refs: TradeFM from JPMorgan (2026) | LOBERT arxiv.org/abs/2511.12563 | TLOB arxiv.org/abs/2502.15757 | Deep LOB Briola et al. (2025)



Understanding LLM Behavior Under Uncertainty

EVALUATION FRAMEWORK

This framework characterizes LLM performance across risk, ambiguity, and paradox, identifying crucial dimensions for effective deployment in finance.

Refs: Financial Brain Scan arxiv.org/abs/2508.21285 | LLM Knows Geometry (2025) | Kong et al. arxiv.org/abs/2602.14233 | Risk, Ambiguity, and Infinity: Behavioral Signatures of Modern Large Language Models (2025)



Ambiguity and Paradox in LLMs

ELLSBERG'S URN

GPT-4 consistently avoids selecting from an ambiguous urn, showcasing its **risk-averse behavior** in uncertain scenarios and decision-making processes.

ST. PETERSBURG GAME

In the St. Petersburg paradox, GPT-4 aligns closely with human baselines, demonstrating its ability to engage effectively in complex decision-making challenges.

Refs: Risk, Ambiguity, and Infinity: Behavioral Signatures of Modern Large Language Models (2025); A Financial Brain Scan of the LLM (2025); When LLMs Go Abroad: Foreign Bias (2025)

The Five Sins

Kong et al. (2026): 164 papers reviewed. No single bias in >28% of studies.
Biases compound to create an illusion of validity.

LOOK AHEAD

Look Ahead Bias occurs when future information inadvertently influences model predictions, leading to overly optimistic results and flawed evaluations.

SURVIVORSHIP

Survivorship Bias excludes failed firms from analysis, creating a misleading view of performance by only considering successful entities in the dataset.

NARRATIVE, OBJECTIVE & COST

3. Narrative Bias: LLM generates plausible but ungrounded causal stories.
4. Objective Bias: Training rewards confidence over calibrated uncertainty.
5. Cost Bias: Ignores latency, inference cost, and trading friction.

STRUCTURAL VALIDITY FRAMEWORK: FIVE PILLARS FOR DEPLOYMENT READINESS. 76% OF PRACTITIONERS SAY EVALUATION TOOLS ARE SCARCE.

REFS: KONG ET AL. ARXIV.ORG/ABS/2602.14233 | AI AGENT MISINFORMATION (2025) | SOCIAL GROUP BIAS (2025) | FROM TASKS TO TEAMS (2025)

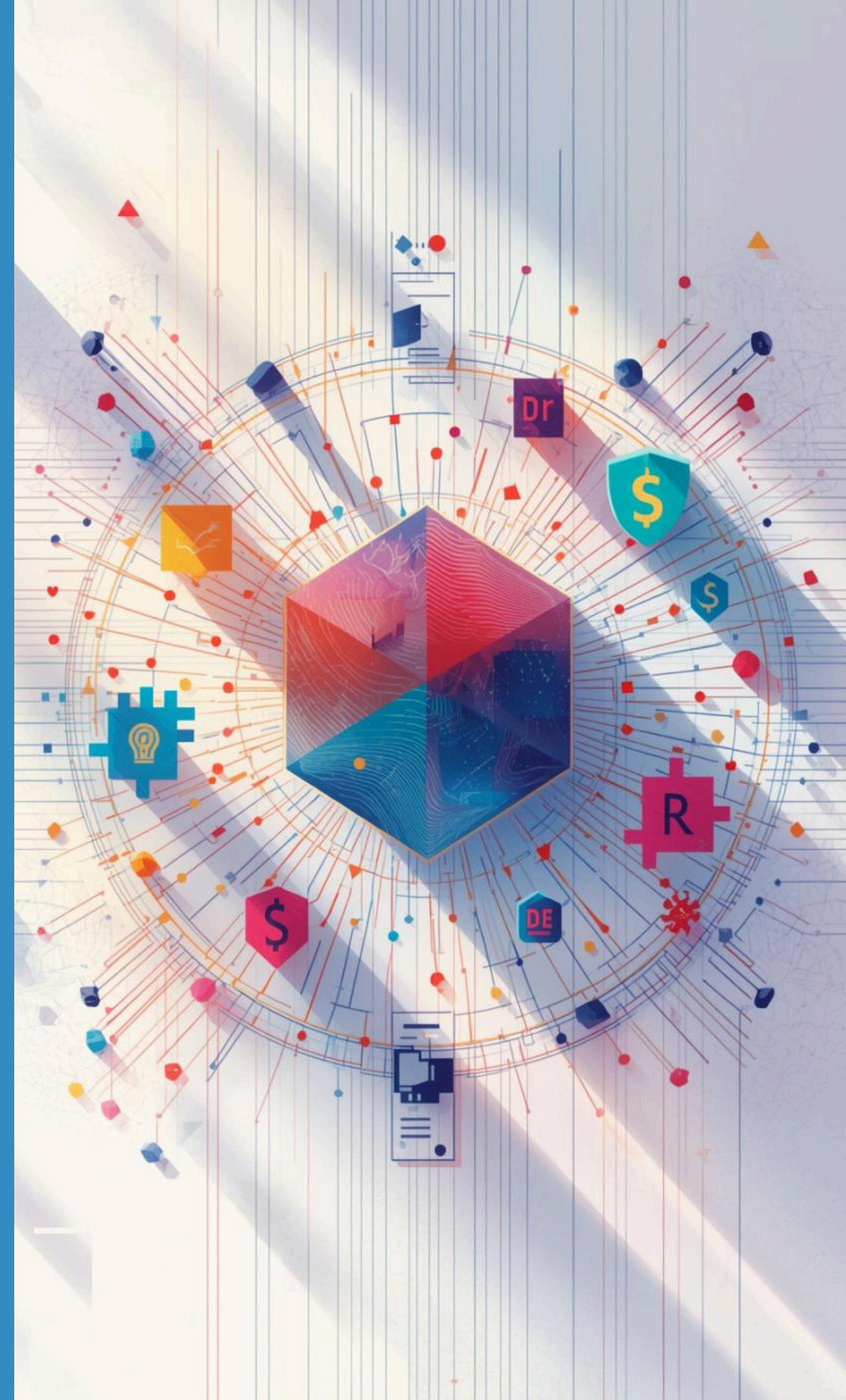
Refs: Kong et al. arxiv.org/abs/2602.14233

Trust and Regulation in Financial AI

ENSURING ETHICAL PRACTICES

Building trust in AI for finance requires **robust regulations** and a solid framework that prioritizes ethical considerations and transparency in decision-making.

Refs: The Agentic Regulator (2025); CFA Explainable AI Report (2025); BIS AI Explainability Paper (2025); US Treasury AI Risk Framework (2026)

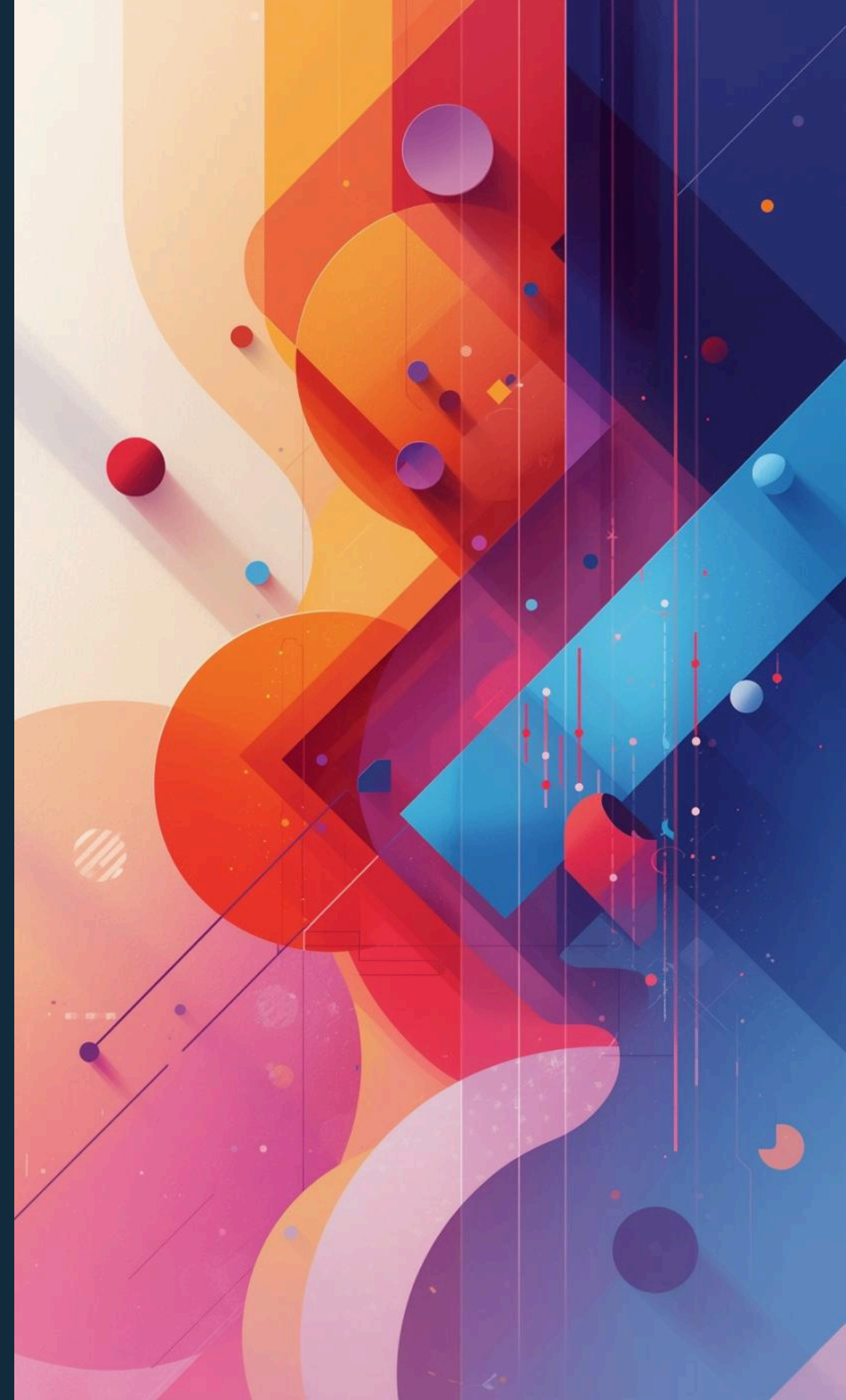


The Complexity of Prediction in Finance

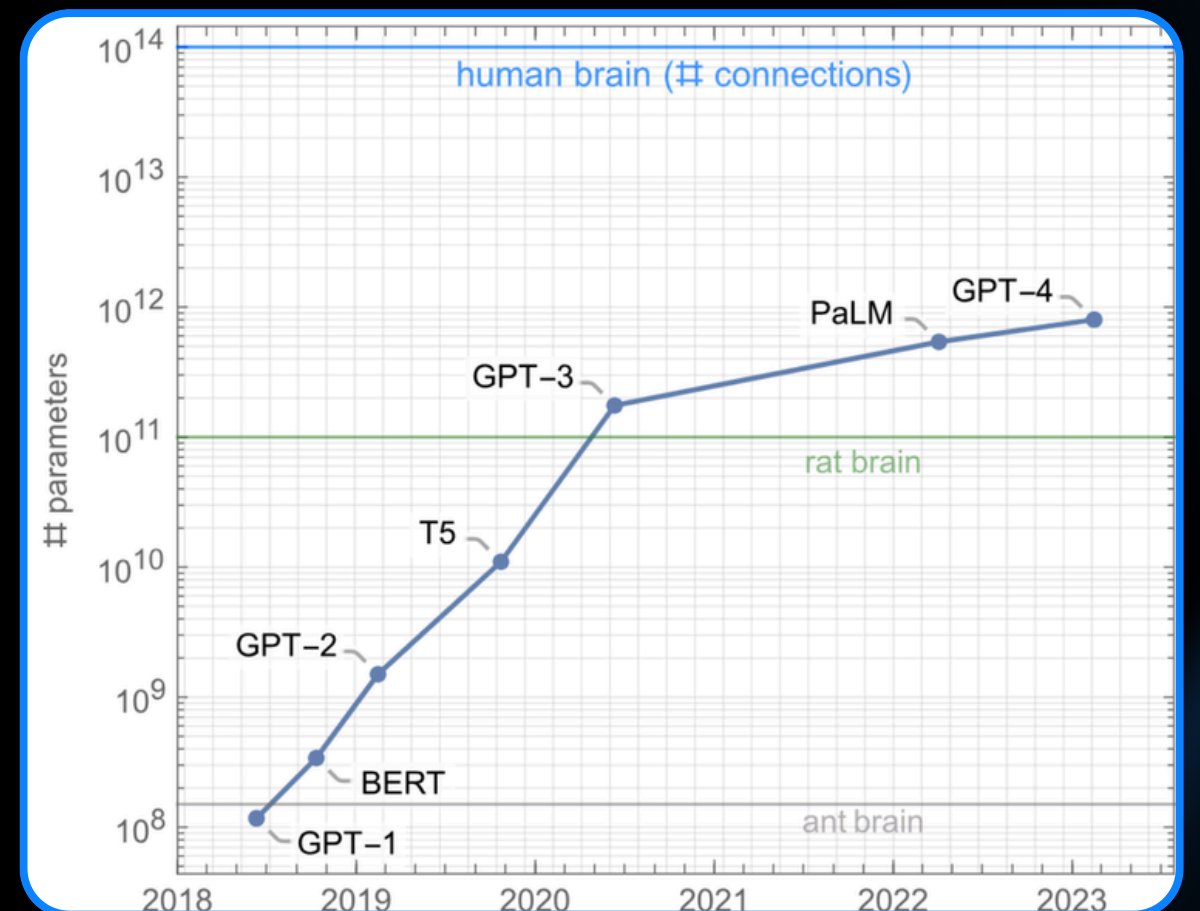
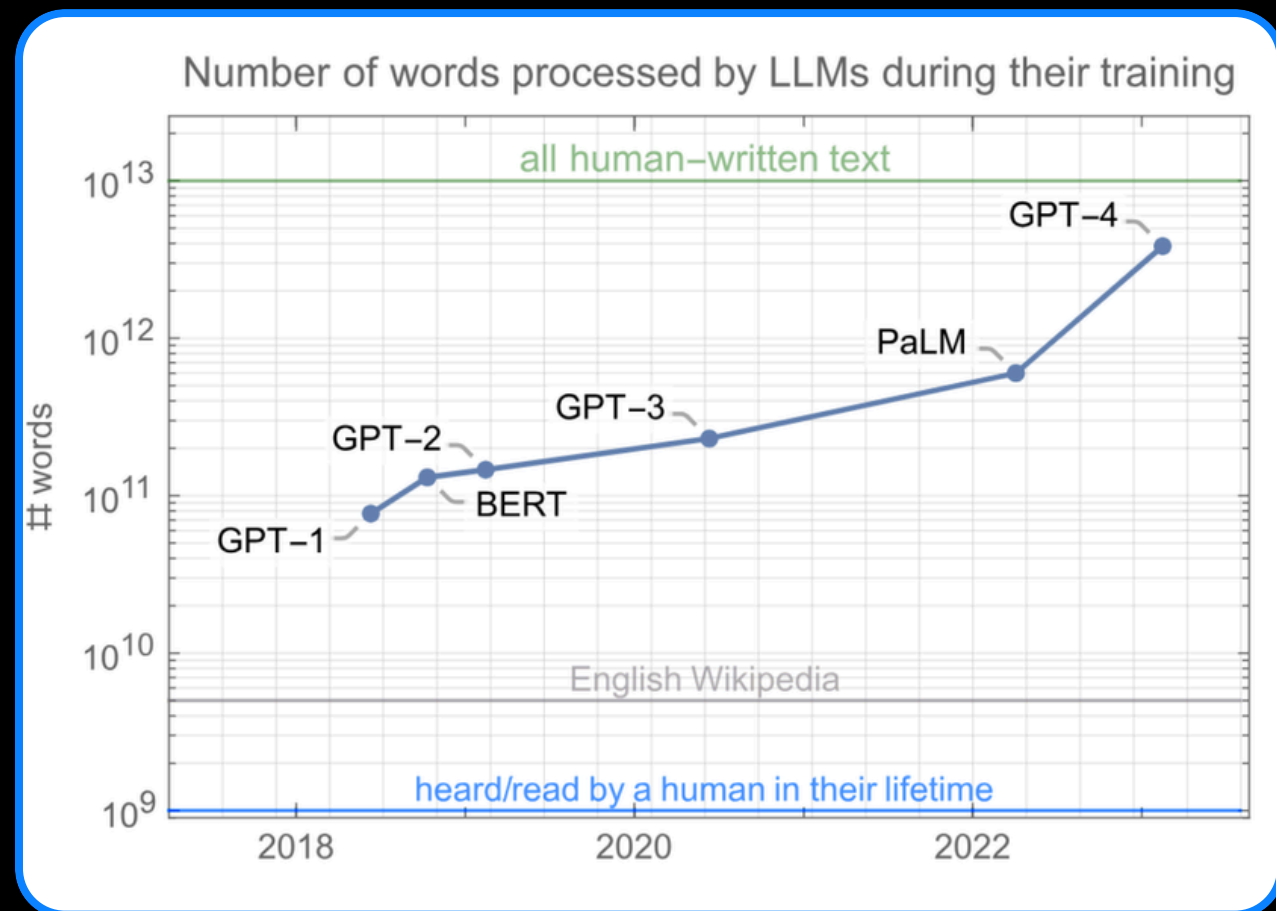
ACCURACY VS. PROFIT

Understanding that **prediction accuracy does not guarantee profitability** is crucial in finance, as chaotic market behavior often leads to unexpected outcomes.

Refs: LiveTradeBench (2025); TradeTrap (2025); Can LLM-based Strategies Outperform? (2025)



LLM Behavior Under Uncertainty



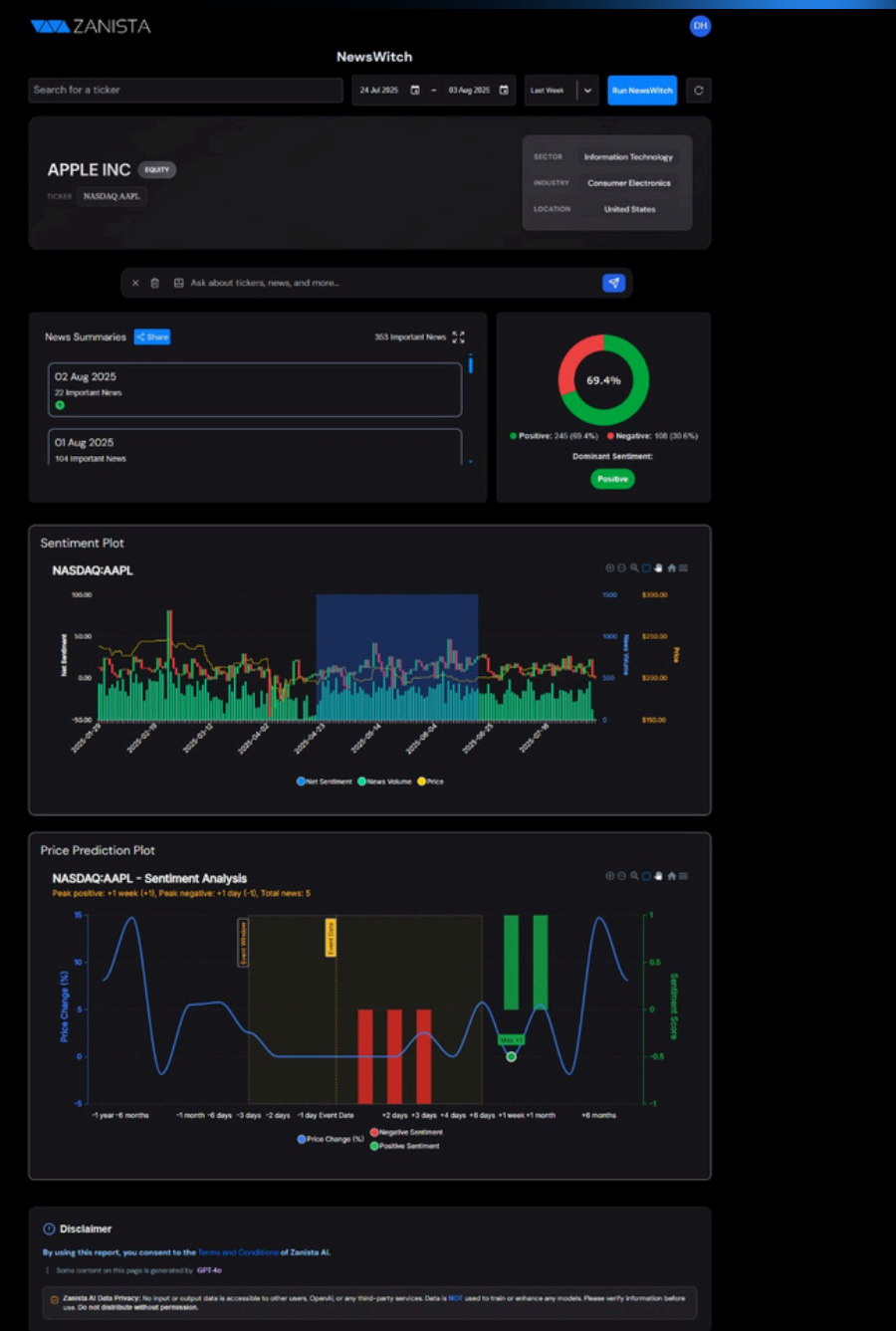
NewsWitch from Zanista

80% of financial data is unstructured: news, filings, calls, social media. LLMs unlock this layer.

Evolution: dictionary methods → Vector Embeddings → GPT sentiment. Dense embeddings capture entity relationships, narrative framing, semantic drift.

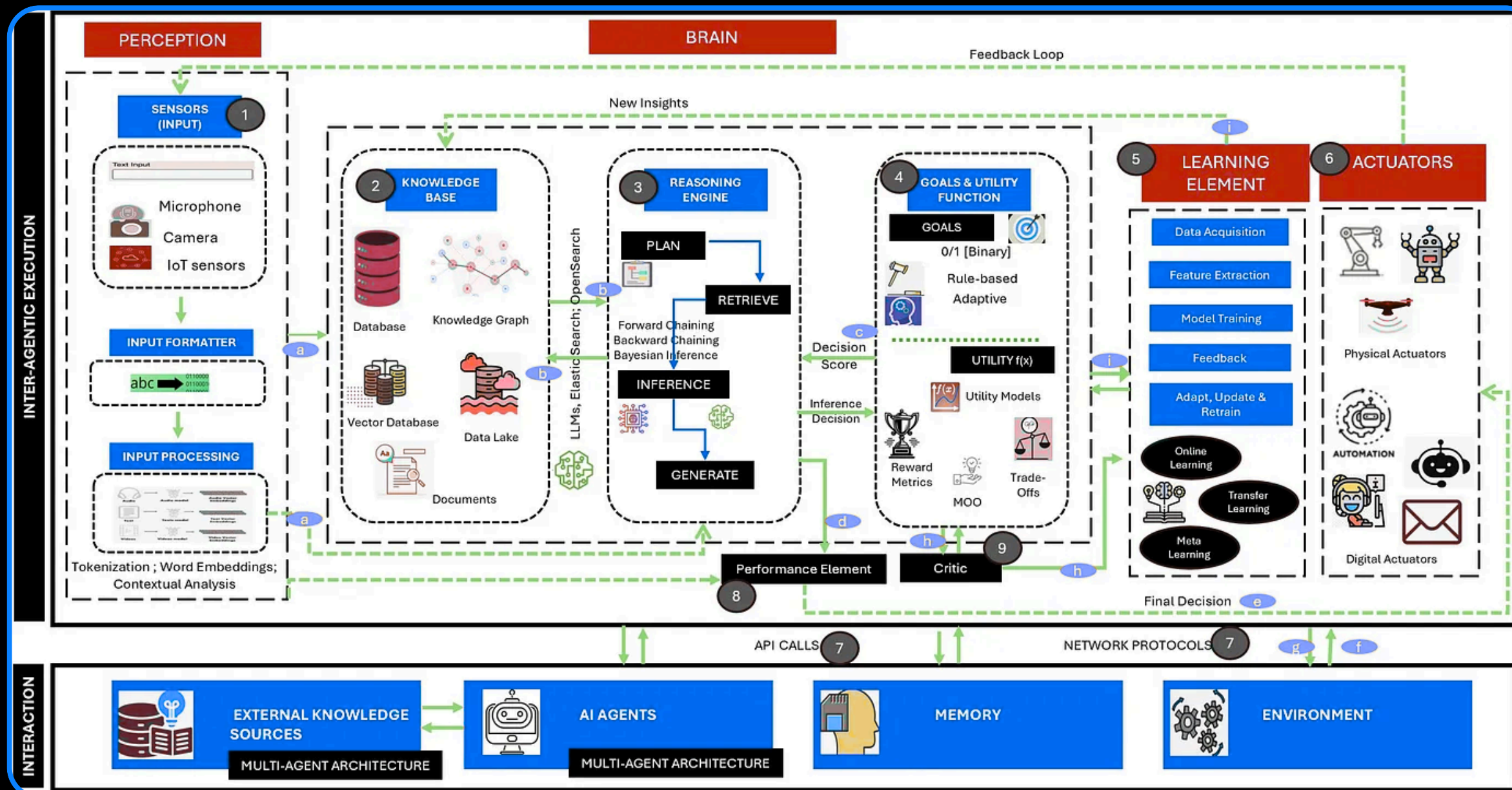
NewsWitch: ~1M articles/day, RAG pipelines + PCA for scalability.

Refs: <https://zanista.ai/products/newswitch>



From Signals to Decisions: Multi-Agent Trading

TradingAgents (UCLA/MIT 2025): analyst agents collaborate via structured debate



Multi-Agent Systems
 MASS, MASFIN: Decomposed financial reasoning, each agent specializes.

Signals to Portfolios
 Black-Litterman + LLM views. HARLF: Hierarchical RL with sentiment. Hybrid: sentiment + macro + technical.

Prediction accuracy \neq trading profit. The gap is non-trivial.

Refs: arxiv.org/abs/2412.20138 | TradingAgents (2025) | MASS
arxiv.org/abs/2512.21878 | MASFIN (2025) | BL+LLM
arxiv.org/abs/2509.11420 | HARLF (2025) | Trading-RI

Market Participants

Who's Who in Finance

Buy Side: These are the people and firms who buy investments to grow their money.



BlackRock



Long-Only Investors: Mutual funds, pension funds, Vanguard, Fidelity. They pool money from regular people and invest it.



Wealth Managers / Institutions: Big banks like UBS or Merrill Lynch. They help wealthy families and individuals manage and grow their wealth.



Hedge Funds (Long-Short): Like Citadel or Point72. They use more complex strategies, betting both on prices going up and down.

Sell Side: These are the middlemen who help buy-side clients trade.



- **Broker:** Trades on behalf of clients.
- **Dealer:** Trades with their own money, providing liquidity (used to be a major revenue source before regulations like Dodd-Frank limited them).

Market Participants

Who's Who in Finance

Market Makers & High-Frequency Traders

These players make markets work smoothly by ensuring there's always someone to buy or sell.



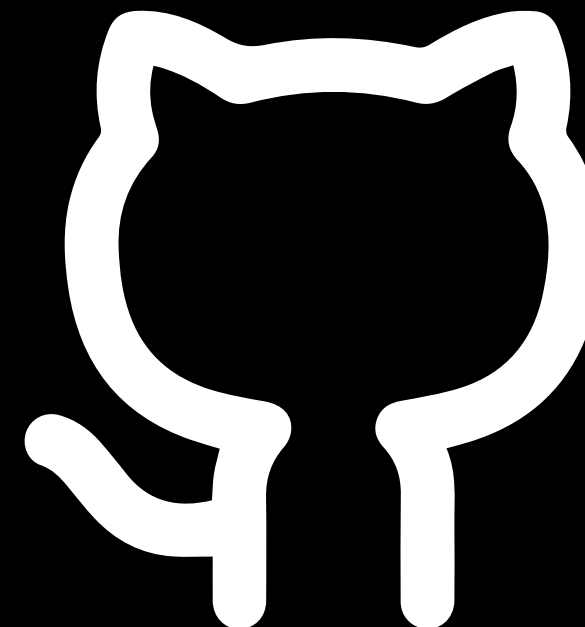
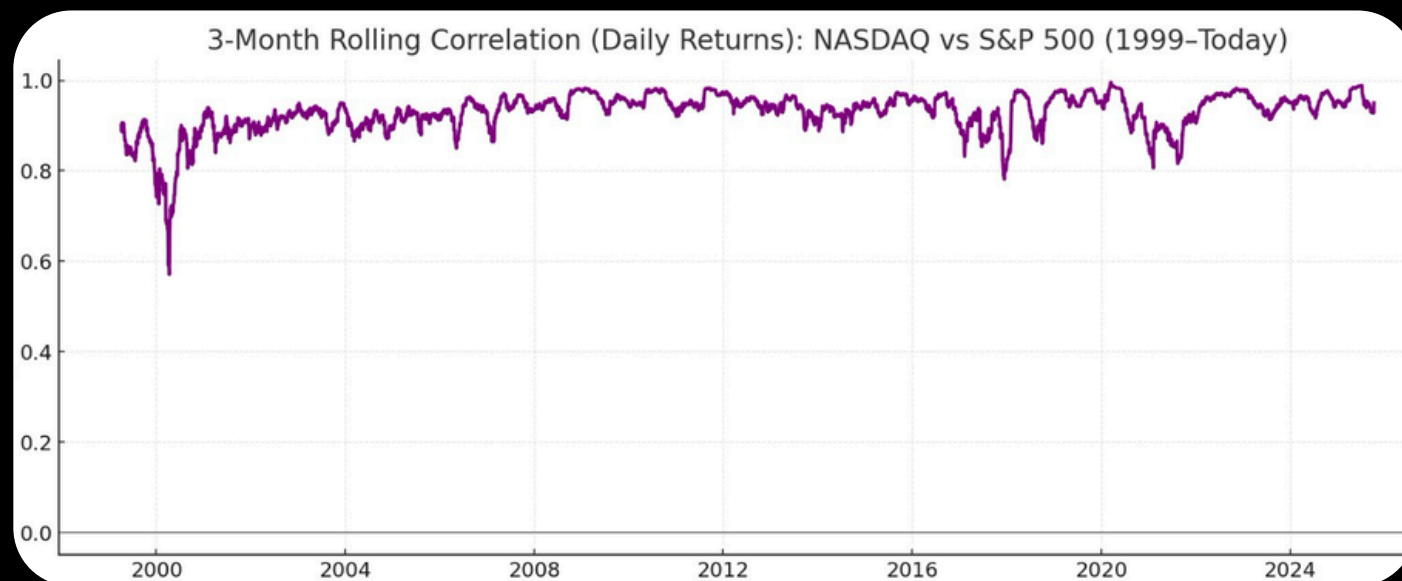
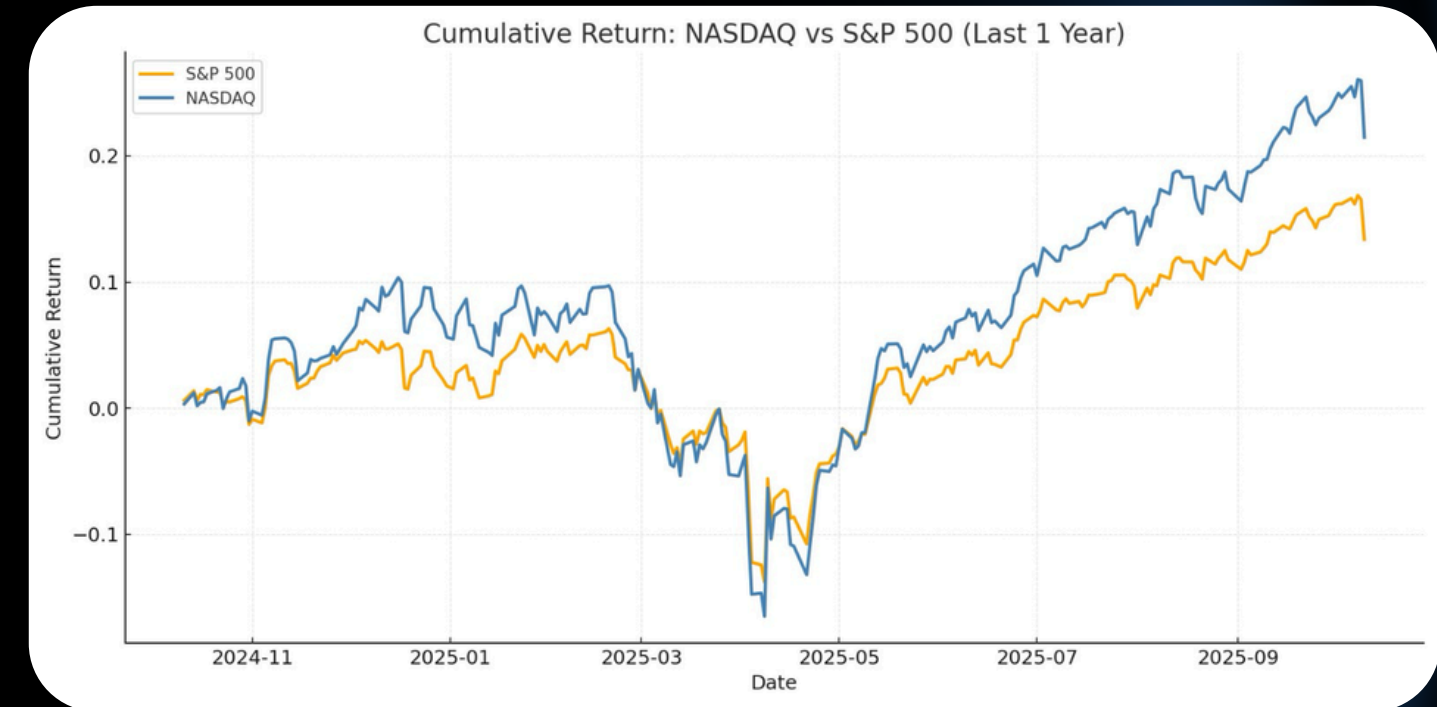
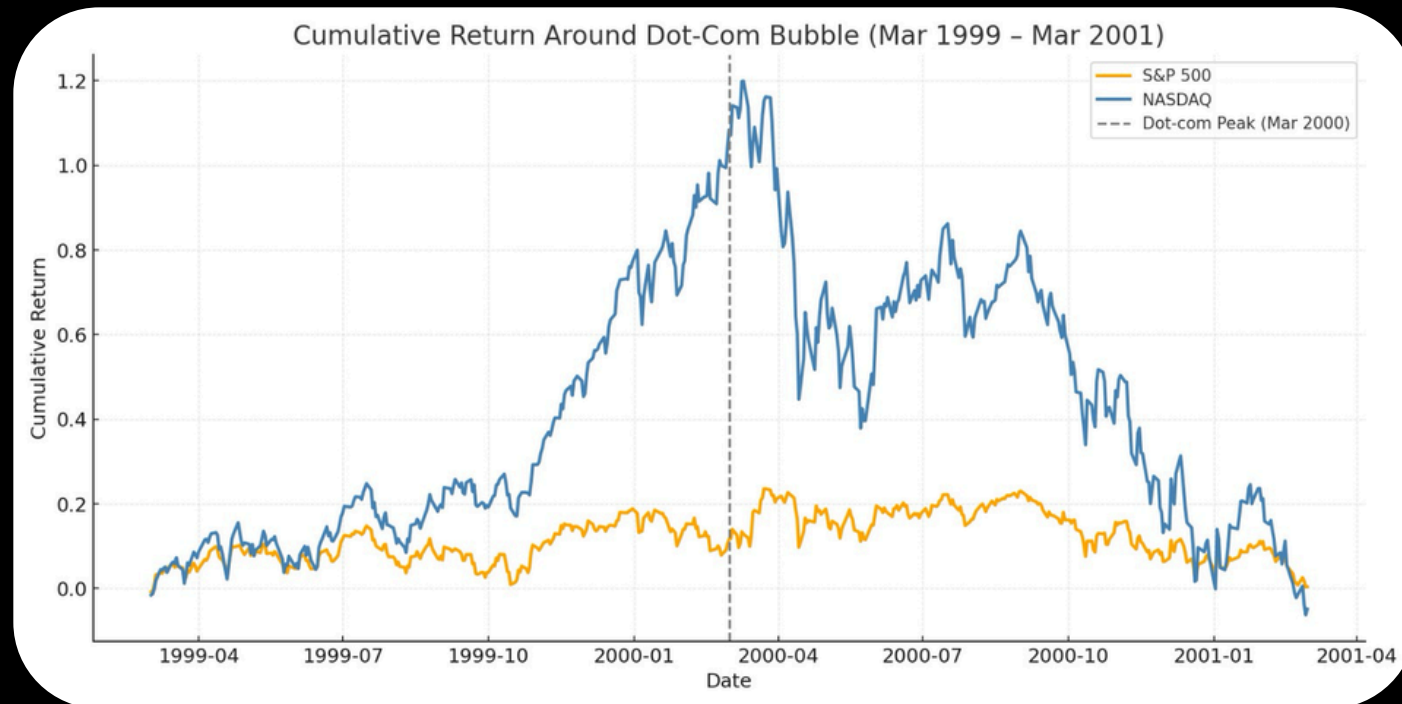
- **Market Makers:** Provide liquidity (always ready to buy or sell). Sometimes they also trade for profit.
- **High-Frequency Traders:** Use super-fast computers and networks to trade in fractions of a second.

Can also connect with retail trading apps like Robinhood or E*Trade to aggregate liquidity.

How It All Connects:

- Corporations issue shares or bonds (they need money).
- Sell Side (brokers/dealers) helps move those securities to investors.
- Buy Side (investors) provide the money in exchange for shares/bonds.
- Market Makers/HFTs keep the system running smoothly by making sure there's always someone to buy or sell at any moment.

AI bubble?



Key Takeaways

DATA ACCESS

LLMs enable access to **80 percent** of unstructured financial data, enhancing insights and decision-making capabilities in the finance sector.

Refs: FinSentLLM arxiv.org/abs/2509.12638
| LLMs in Equity Markets
doi.org/10.3389/frai.2025.1608365

ENGINEERING CHALLENGES

Transitioning from signals to decisions requires **careful engineering** to ensure effective integration of AI models into traditional financial workflows.

Refs: Bridging Finance and AI Survey (2025);
From Deep Learning to LLMs (2025)

DOMAIN SPECIFICITY

Foundation models need **domain specific training** to accurately reflect the unique characteristics and dynamics of financial data for optimal performance.

Key Takeaways

BIASES

LLMs exhibit measurable **behavioral biases** that can impact decision-making and reliability in financial contexts, leading to suboptimal outcomes.

Refs: Financial Brain Scan
arxiv.org/abs/2508.21285 | When LLMs Go Abroad (2025)

Kong et al. arxiv.org/abs/2602.14233

RESEARCH VALIDITY

The five sins of evaluation **undermine research validity**, affecting the credibility of results and findings within the financial AI landscape.

PROFITABILITY

Prediction accuracy **does not guarantee profit**, highlighting the complexity of market behavior and the challenges of translating insights into successful trades.

Key Takeaways

OVERSIGHT

Human oversight is **essential** in AI-driven finance to ensure ethical decisions and mitigate risks associated with automated trading systems.

Refs: The Agentic Regulator (2025); US Treasury AI Risk Framework (2026)

PREDICTION

Prediction accuracy does not **automatically** translate to trading profit; success requires a deep understanding of market dynamics and behavior.

CHAOS

Simple rules can produce **chaotic behavior** in markets and LLMs, complicating the relationship between signals and actionable trading decisions.

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LLM Signals, Sentiment & Trading

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Foundation Models, Microstructure & Reasoning

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Open-FinLLMs: Multimodal Financial LLMs (Huang et al. 2024) arxiv.org/abs/2408.11878
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Evaluation, Bias & Regulation

Evaluation, Bias, Regulation & Surveys

THE FIVE SINS (Kong et al. 2026) arxiv.org/abs/2602.14233

164 papers reviewed. Five compounding biases: Look-Ahead, Survivorship, Narrative, Objective, Cost.

EXPLAINABILITY & BIAS

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Thank you!

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