

Does Vibe Banking work ?

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Disclaimer: The views expressed in this session are solely those of the presenter and do not necessarily reflect the views of any institution with which the presenter or the coauthors are affiliated.

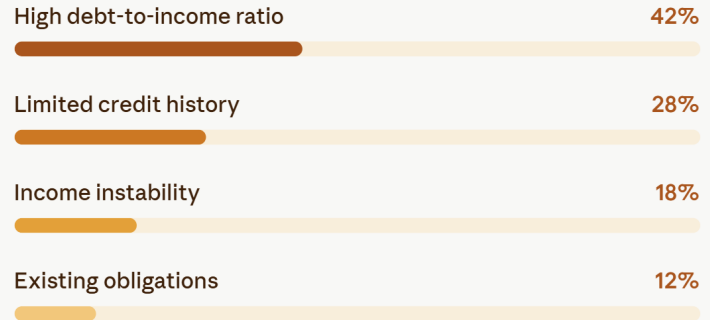
Predictive AI

Why Finance Trusted it

- Handled huge, high-variety data well
- Reproducibility
- Explainability

Explainability Example:

Why AI model rejected the loan?



Generative AI

Why it took off in Finance

Retrieval

80%

Of all finance data is unstructured *

Generation

70%

Of financial generation related activities automated by 2030**

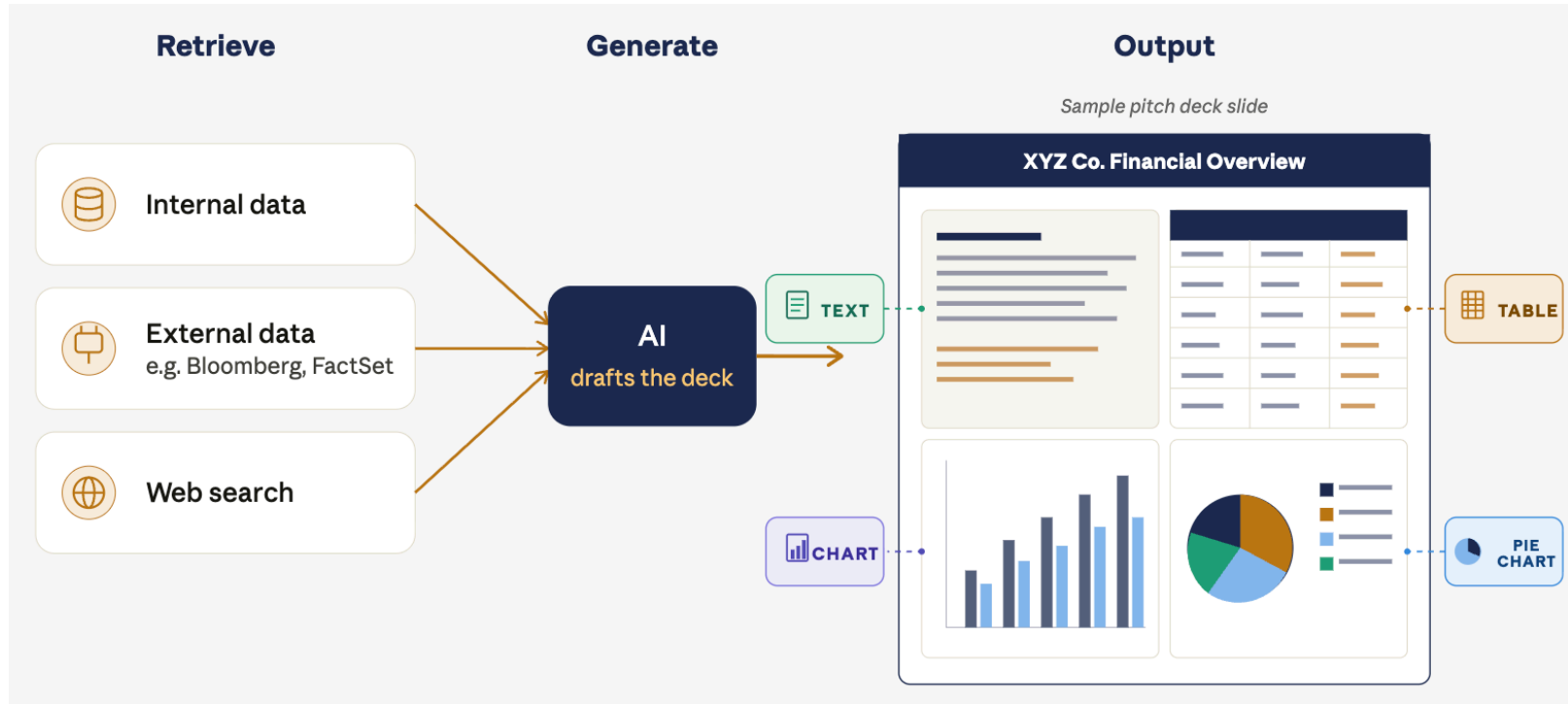
From Single task models in **Predictive AI** to entire workflow in **Generative AI**

*Source: Keymakr / IDC / Ponemon Institute — "Leveraging Unstructured Data with AI in Finance", 2024

**Source: McKinsey Global Institute — "The economic potential of generative AI: The next productivity frontier", 2023

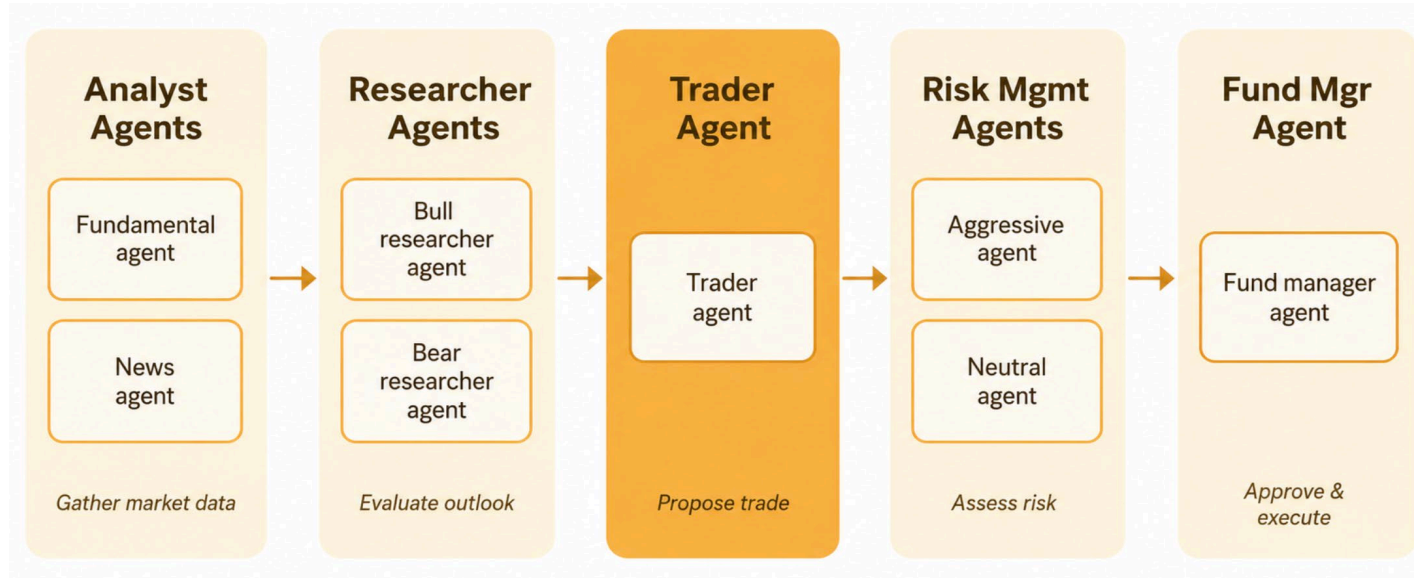
Generative AI

Example workflow – Banks : M&A Pitch Decks



Generative AI

Example workflow – Buy side : Trading Agents*



*Source: arxiv.org/abs/2412.20138 — TradingAgents (Xiao et al., UCLA / MIT / Tauric Research)

Risk and Control



Hallucination

In Finance, a single hallucination can create disproportionate impact

Vibe Banking

- Fluent output enters workflow before verification

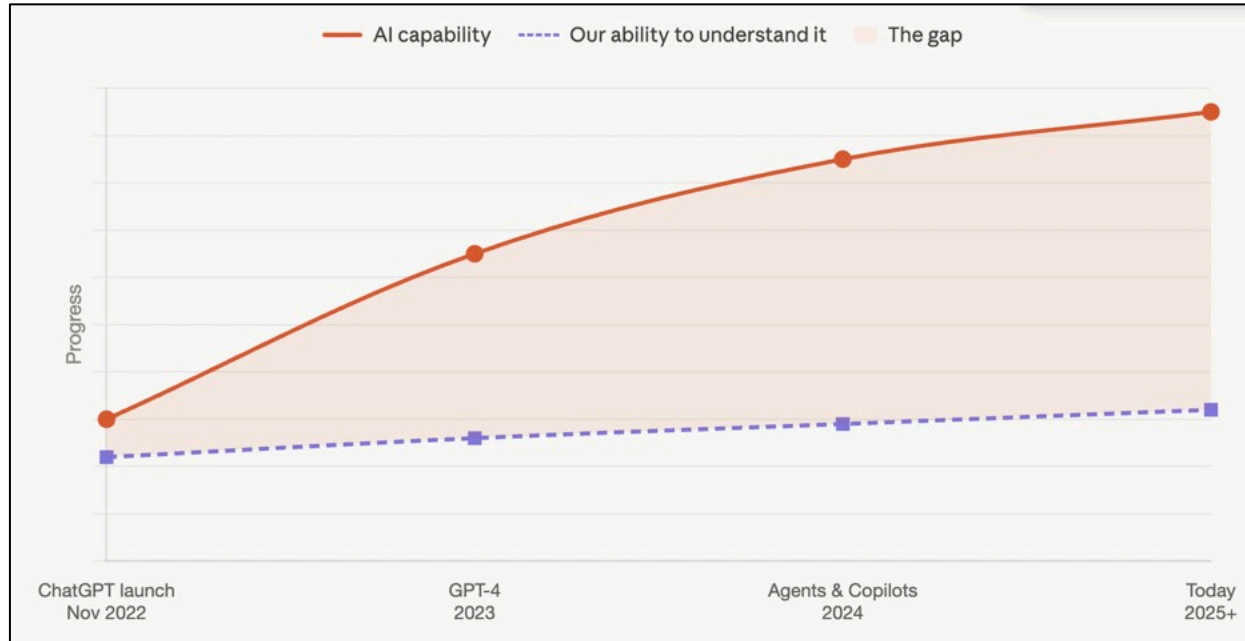


Agentic Engineering

- Active verification at speed
- Adversarial testing before action

Explainability

Capability is rising faster than understanding



What we have :

Prompts, chain-of-thought traces, guardrails, output checks

What's needed:

Evidence of what is happening **inside the model**

Explainability

Our Paper : Beyond the black box – Interpretability of LLMs in Finance

arXiv > cs > arXiv:2505.24650

Computer Science > Computational Engineering, Finance, and Science

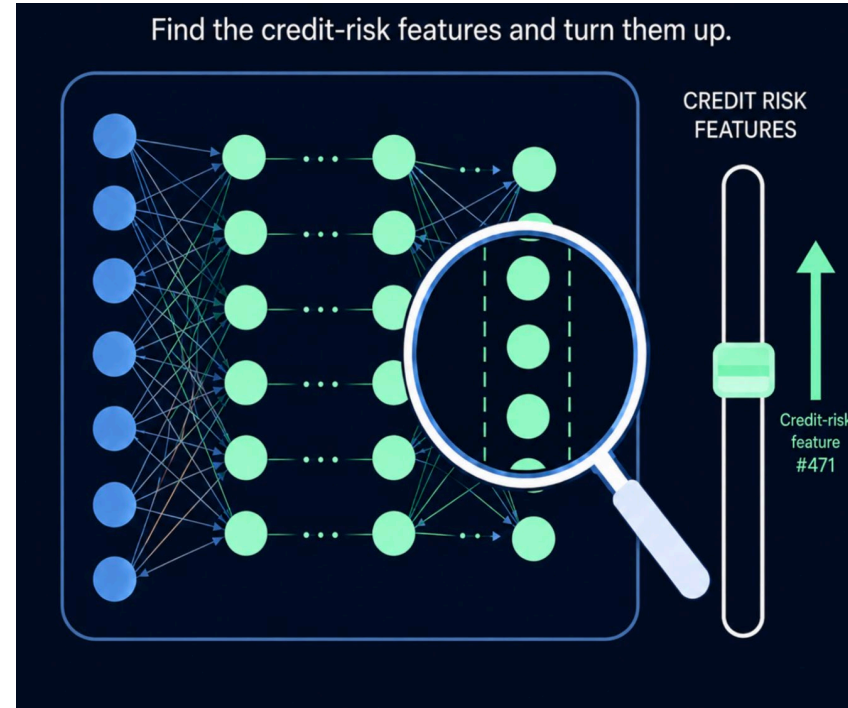
[Submitted on 14 May 2025]

Beyond the Black Box: Interpretability of LLMs in Finance

- Discover internal concepts
- Explain, control, and modify behavior using model internals.
- Open new possibilities for high-stakes financial AI

Example: Credit Risk Features

Find the credit-risk features and turn them up.



Final Thoughts

Estimated lost U.S. output from the 2007–09 financial crisis

\$6T - 14T*

Because subprime models looked accurate - until they weren't

AI in finance **can't repeat that.**

*Source : <https://www.gao.gov/products/gao-13-180>

Thank You!

LinkedIn

