



AI, retirement funds, and the next chapter

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Demystifying AI

AI and its relevance – past, present and future

Past

“AI has been part of our imaginations and simmering in research labs since a handful of computer scientists rallied around the term at the Dartmouth Conferences in 1956 and birthed the field of AI...Over the past few years AI has exploded, and especially since 2015. Much of that has to do with the wide availability of GPUs that make parallel processing ever faster, cheaper, and more powerful.”

Nvidia's website



Present(ish)

“ChatGPT is incredibly limited, but good enough at some things to create a misleading impression of greatness. It’s a mistake to be relying on it for anything important right now. it’s a preview of progress; we have lots of work to do on robustness and truthfulness.”

Sam Altman, CEO OpenAI. Twitter
12/10/22.



ChatGPT

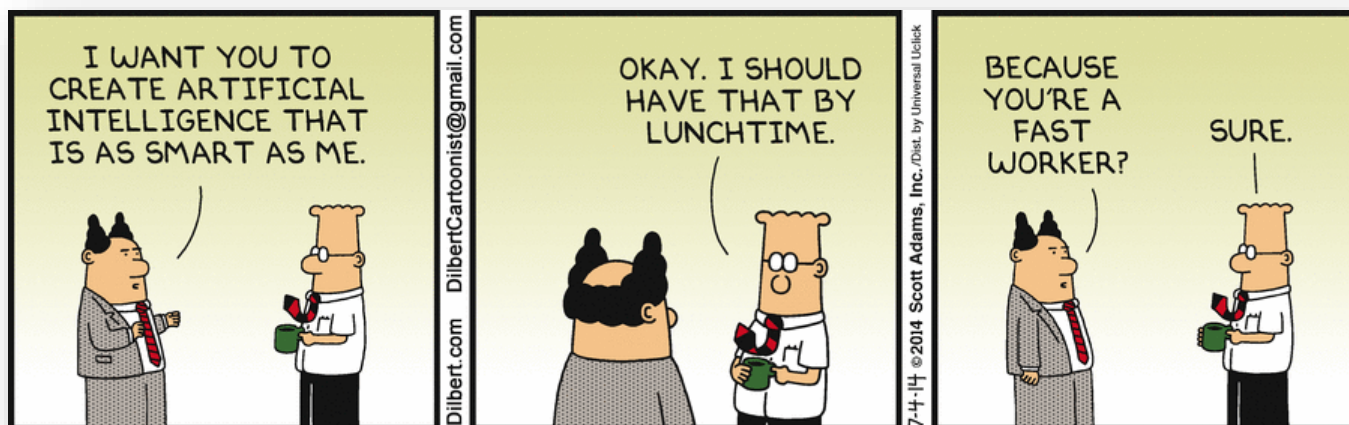
Future

“There will be two kinds of companies at the end of this decade... Those that are fully utilizing AI, and those that are out of business.”

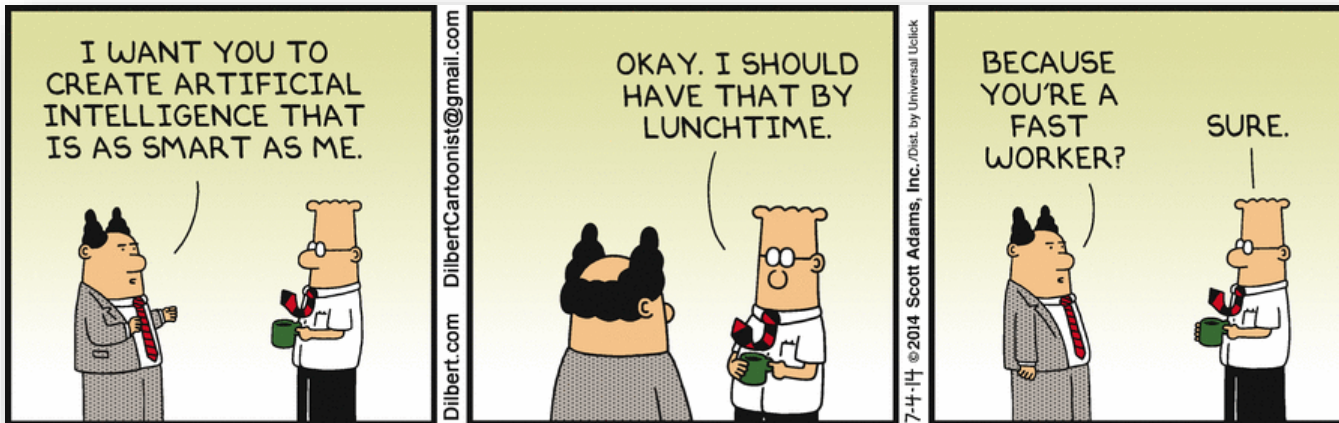
Peter H Diamandis



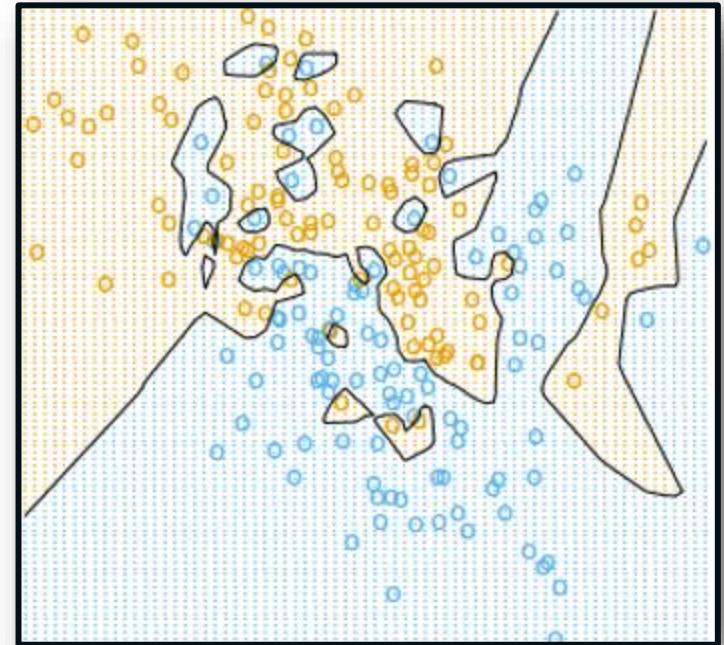
What is AI?



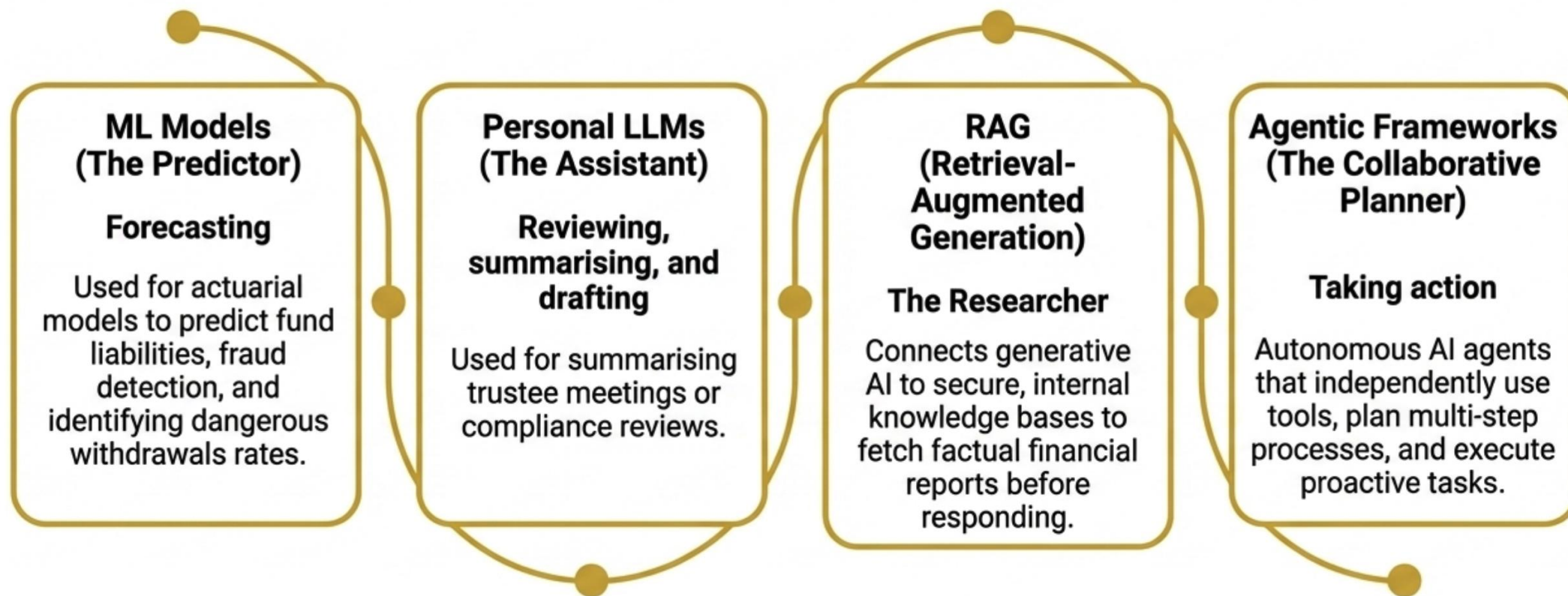
What is AI?



AI is about finding patterns in data
(often a lot more accurately than human beings 😊)



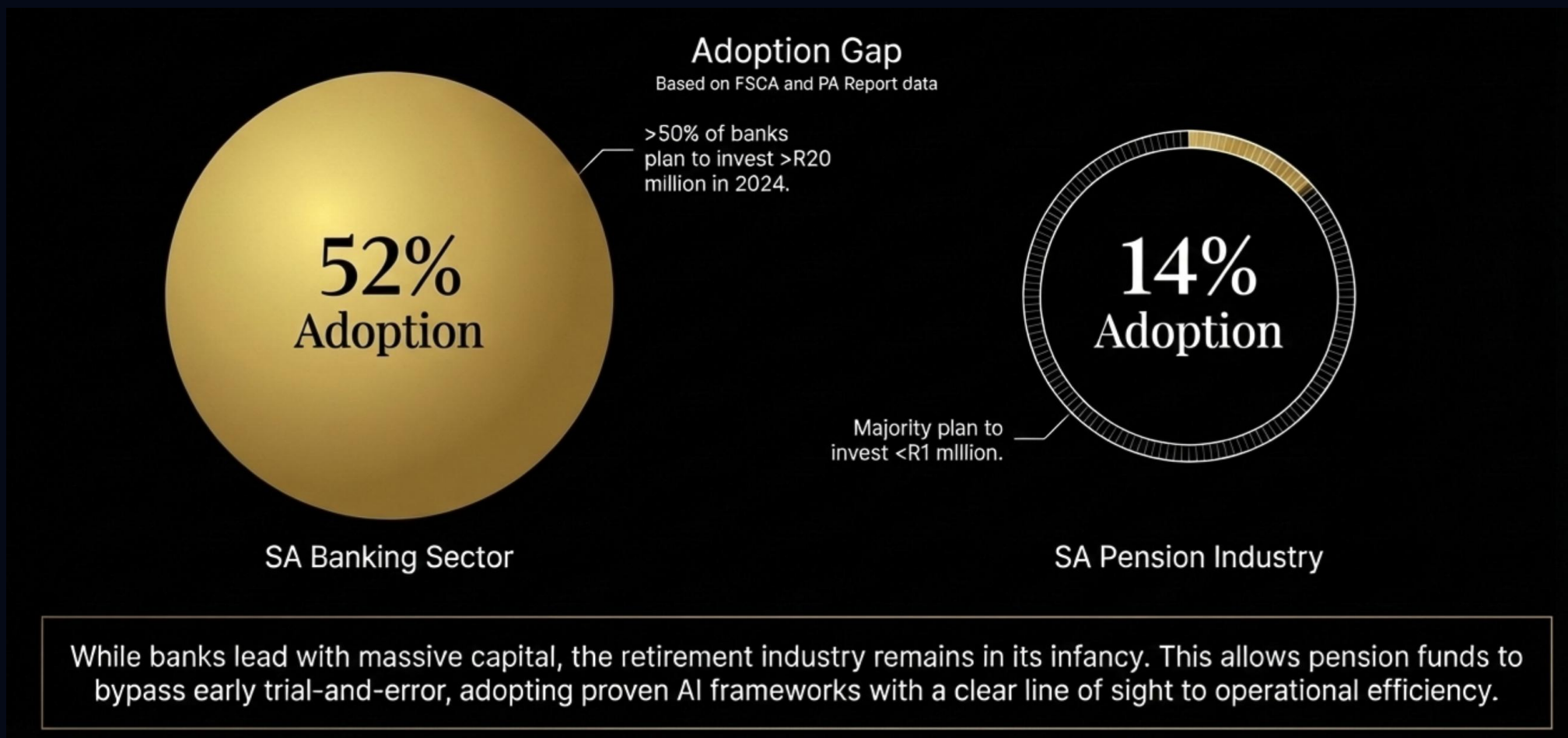
The modern AI frameworks



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The South African landscape and regulatory framework

The SA state of play: second-mover advantage



The regulatory and supervisory horizon

	Current Frameworks	Incoming Scrutiny (The Horizon)
Data Protection	POPIA compliance. Prevents automated decisions with legal/substantial effects without consent.	Stricter enforcement on data confidentiality and mandatory third-party validation.
Automated Advice	FAIS Act. Requires algorithmic testing, human resources, and robust internal controls.	CoFI Bill. Shifting to rigorous, outcomes-based regulation across all digital innovations.
The Black Box	Opaque AI decision-making accepted due to technological limitations.	Demand for XAI (Explainable AI) like SHAP/LIME methods for auditable, transparent decisions.

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AI for operational efficiency

Operational case studies



Cross-sell

250%

Increase in sales conversion
rate for an insurance campaign
to existing clients



Retention

50%

Reduction in cancellations
with very simple
email interventions



Credit

42%

Improvement in credit defaults by
implementing an AI-based credit
application scorecard



Fraud

20

Fraud investigators no longer needed
to be hired because fraud was more
accurately found

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AI and investments

AI-based investment case study

Conservative mandate

Large-cap
stocks

Highly liquid
and scalable

Shares with 10 years of
history

Spread of
industries

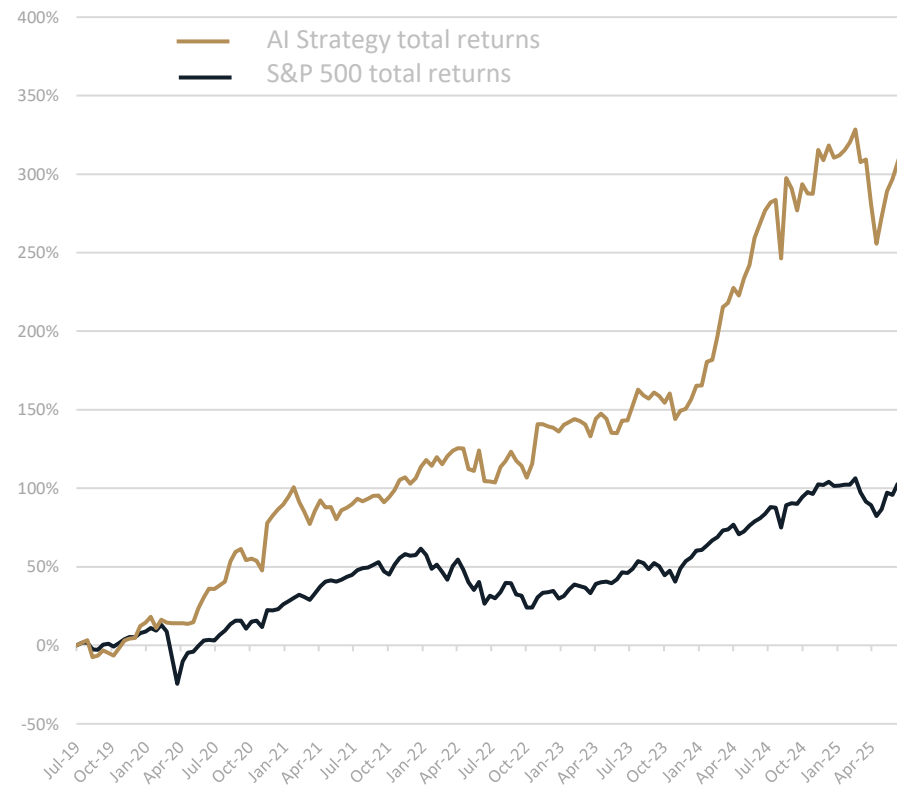
No leverage

No arbitrage

No shorting

No high-frequency
trading

Real money track record investing in US large-cap equities (from July 2019 to Jun 2025)



S&P absolute
return

109%

AI strategy
absolute return

340%

Risk Metrics (updated to Q2 2025)	S&P 500	AI Strategy
Annualised returns	13.10%	27.98%
Max Drawdown	24.77%	10.82%
Peak-to-Valley	21/12/31 - 22/09/30	25/01/31 - 25/04/30
Recovery	15 months	2 Months
Sharpe Ratio	0.65	1.16
Sortino Ratio	1.00	2.52
Standard Deviation	4.99%	6.11%
Downside Deviation	3.17%	2.70%

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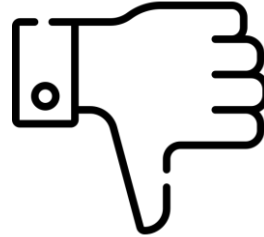
AI risks

The costs of rogue AI



Financial Losses:

AI failures in trading and autonomous vehicles risk major losses, with AI bias projected to cost businesses \$10B annually by 2025 (McKinsey, 2023).



Reputation Damage:

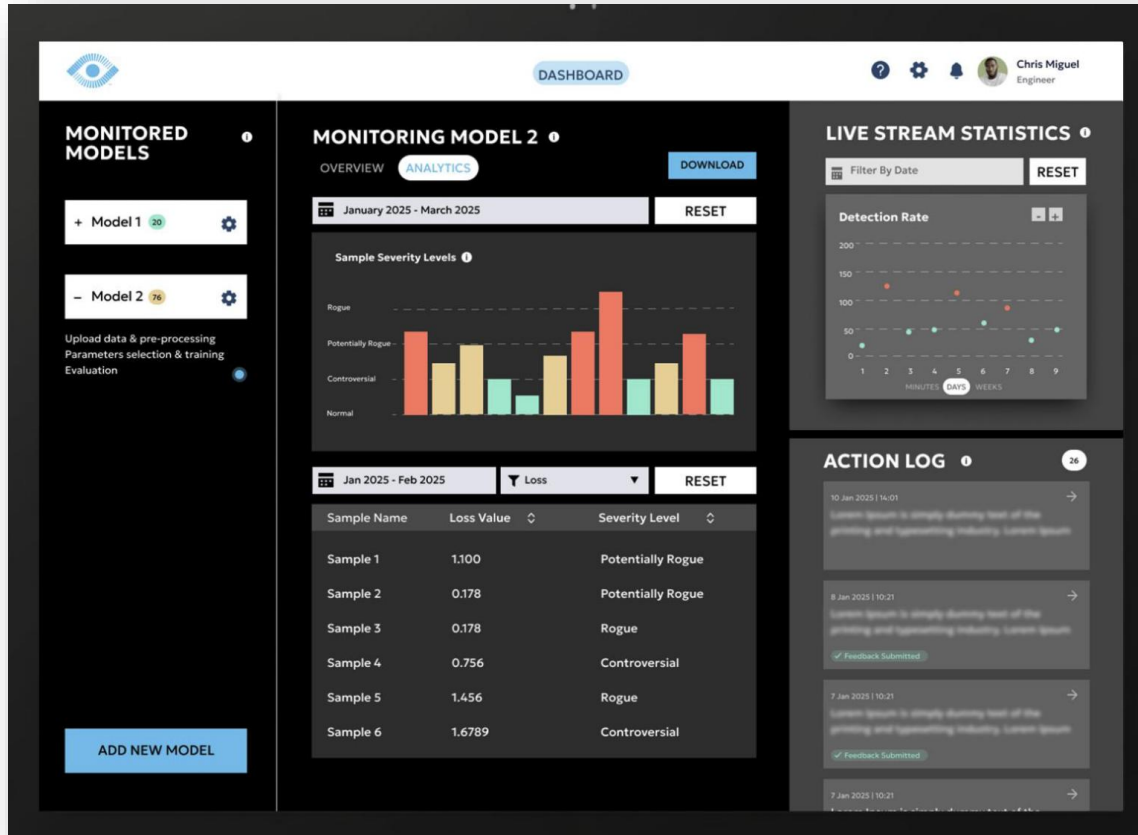
AI-generated bias and misinformation can damage brands and erode trust, as seen in Facebook's AI moderation errors (Forbes, 2021).



Regulatory Risks:

Non-compliant AI risks penalties, legal action, and lost credibility, especially in healthcare and finance (Harvard Law, 2024).

Using AI to monitor AI



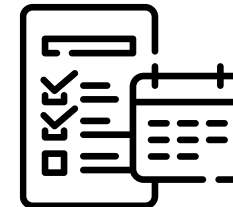
Behaviour Metrics

Real-time tracking of AI performance.



Anomaly Alerts

Clear notifications of flagged behaviours with context.



Actionable Insights

Step-by-step guidance to address issues.

Benefits vs risks

Benefits

- Increased revenue
- Reduced expenses
- Better compliance
- Increased efficiency and scalability
- Improved customer experience
- Creating a competitive advantage

Benefits vs risks

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Risks

- Agentic **misalignment**
- **Privacy** issues
- Skills **scarcity**
- Job **losses**
- Model **bias** and fairness
- Lack of **explainability**
- **Ethical** challenges and market risks

THANK YOU

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