



Artificial Intelligence in Finance

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KORTO/Insa



AI is a computer system
able to perform tasks
that ordinarily require
human intelligence ...

Jeremy Achin, DataRobot

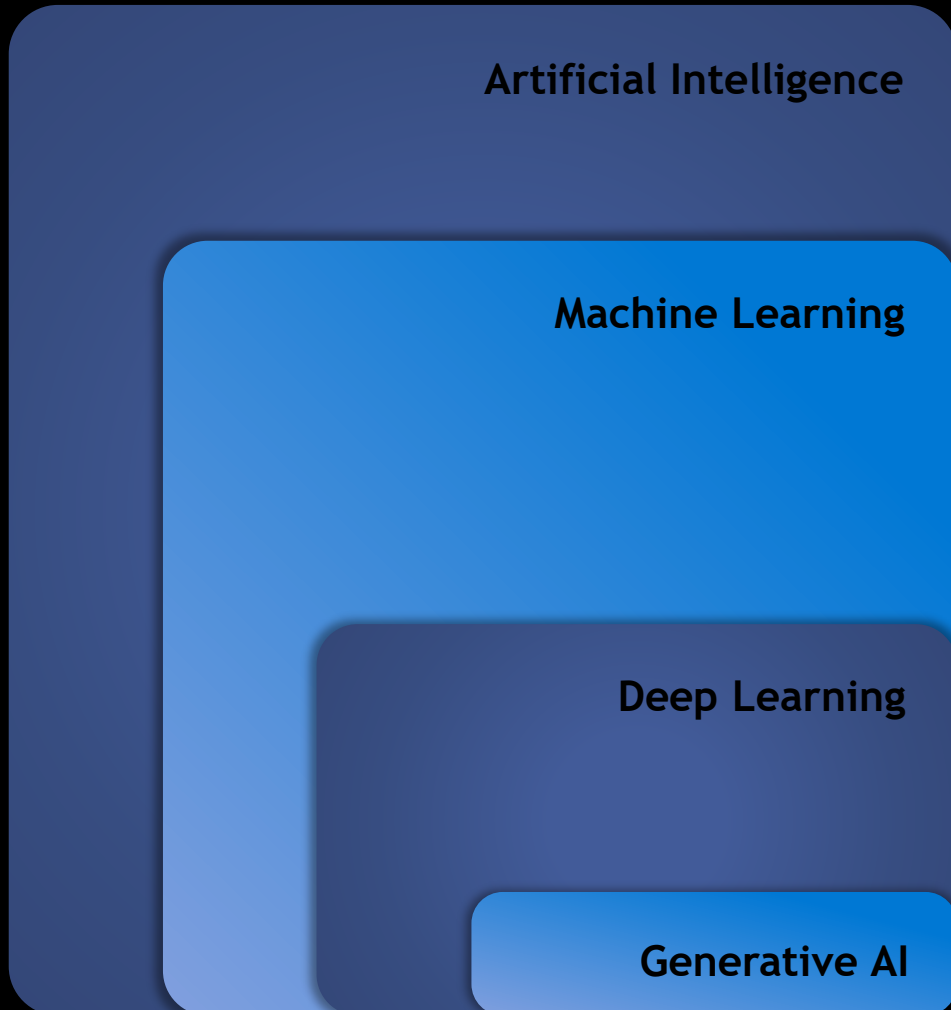
**Any sufficiently
advanced technology is
indistinguishable from magic!**

Arthur C. Clarke



87%
companies believe
AI will give them
competitive edge

The journey continues with Generative AI



1956

Artificial Intelligence

the field of computer science that seeks to create intelligent machines that can replicate or exceed human intelligence

1997

Machine Learning

subset of AI that enables machines to learn from existing data and improve upon that data to make decisions or predictions

2012

Deep Learning

a machine learning technique in which layers of neural networks are used to process data and make decisions

2021

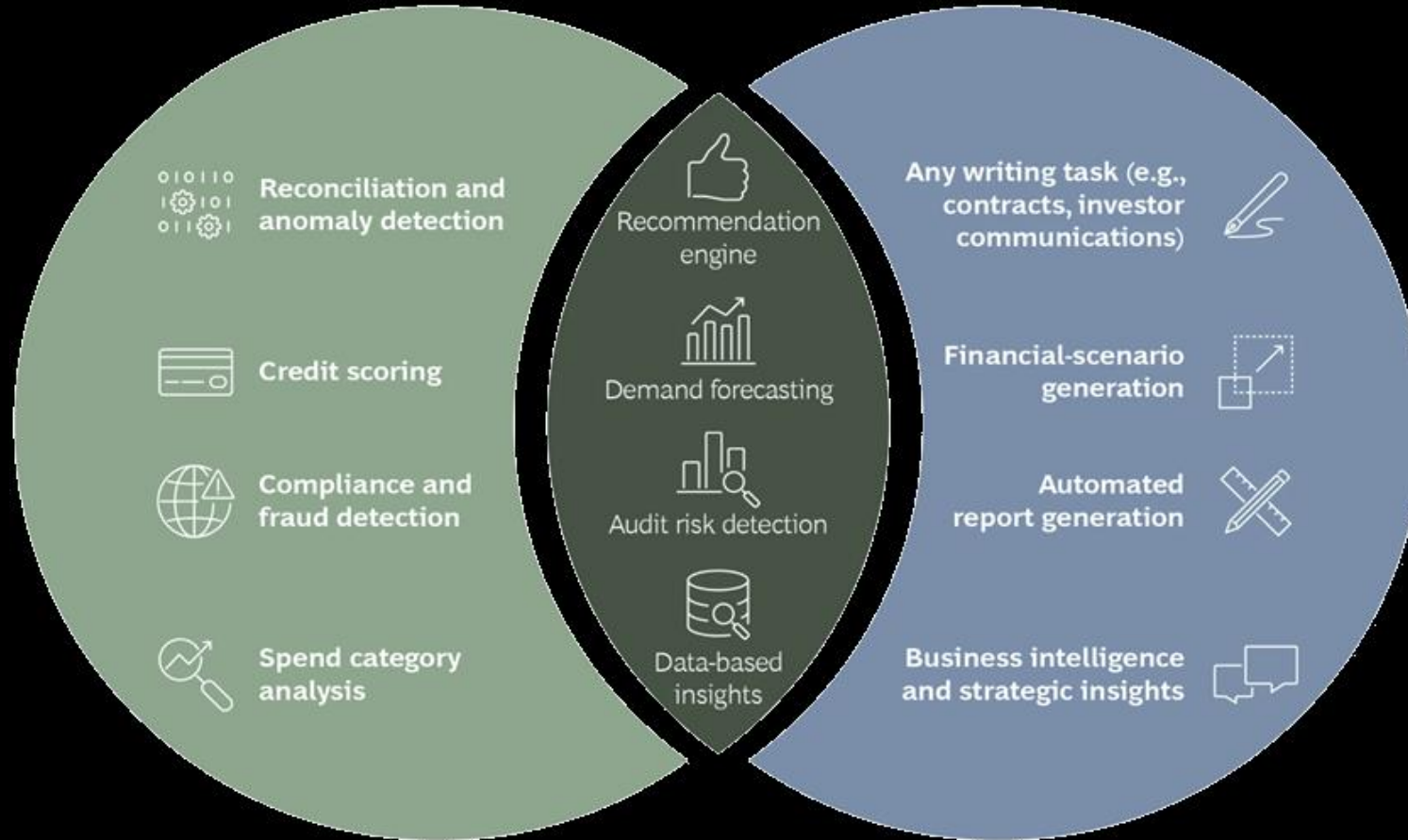
Generative AI

Create new written, visual, and auditory content given prompts or existing data.

AI in Finance

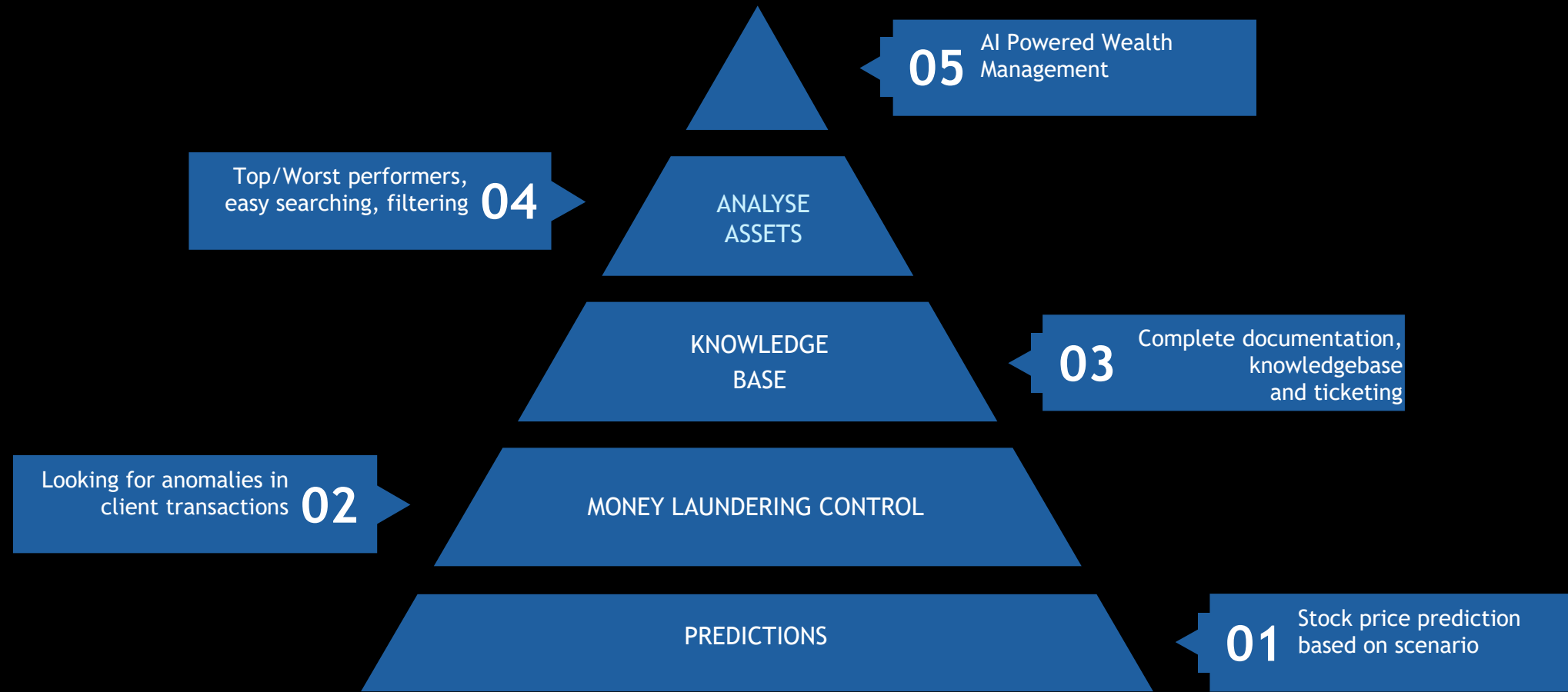
AI for decision making

Generative AI



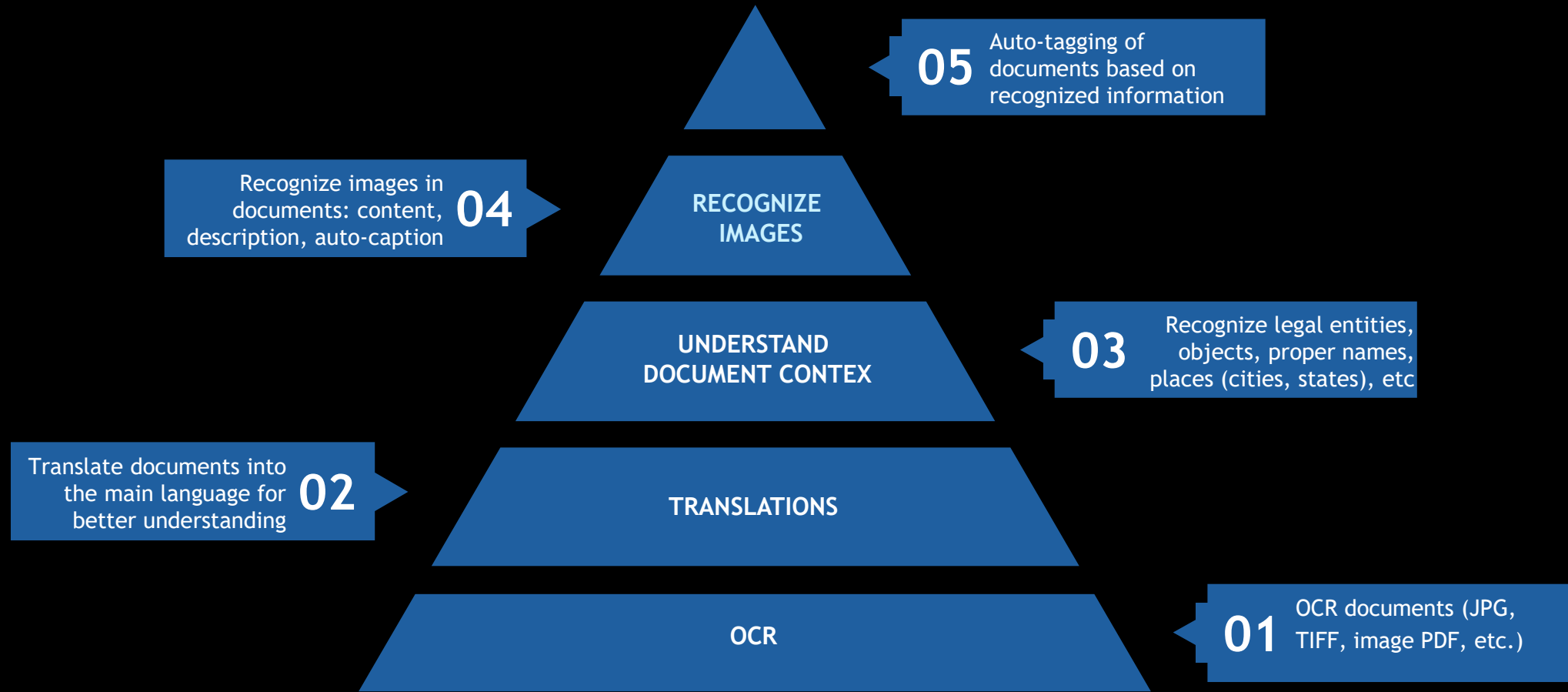
AI used in our project: INSA

Wealth Management/Treasury System



AI used in our project: KORTO

Secure Record/Document Management



Azure AI Document Intelligence



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Zürich, 09.07.2021 Seite 1 von 1

Ertragsausschüttung Portfolio
Halbjahresdividende

Transaktion **1551548** Eingang vorbehalten
Aufgrund Ihres Bestandes schreiben wir Ihnen gut

250	Shs Global X Lithium & Battery Tech ETF	Depotstelle: 1
	Valor: 30340257 / US37954Y8553	Zahlbar Datum: 08.07.2021
		Ex Datum: 29.06.2021

Brutto	zu USD 0.035747	USD	8.94
Quellensteuer	15 %	USD	-1.34
Devisenkurs	0.897	USD	7.60
Steuerrückbehalt USA	15 %	CHF	6.80
Gutschrift	Valuta 08.07.2021	CHF	5.60
Genossenschafterkonto			

Steuerbarer Ertrag vom Brutto	100.00 %	USD	8.94	USD/CHF 0.897	CHF	8.00
Anrechenbar (DA-1/2)	15.00 %	USD	1.34	USD/CHF 0.897	CHF	1.20
Rückforderbar (R-US164)	15.00 %	USD	1.34	USD/CHF 0.897	CHF	1.20

Page # / Field name / Value	Confidence
1 BankName	99.20%
Bank Sparhafen Zürich AG	
1 ClientName	99.00%
Bahnhofstrasse 8001 Zürich	
CustodyAccountName	95.40%
NULL	
1 TransactionNumber	99.10%
1551548	
1 TransactionType	99.00%
Ertragsausschüttung	
1 TransactionSubType	97.70%
Halbjahresdividende	
1 Description	95.30%
Shs Global X Lithium & Battery Tech ETF	
1 TelekursID	99.40%
US37954Y8553	
1 CurrencySC	99.00%
USD	
1 TransDate	99.40%
08.07.2021	
1 ValueDate	99.00%
08.07.2021	
1 Quantity	99.40%
250	
1 GrossAmountSC	99.40%
8.94	
1 NetAmountAC	99.40%
5.60	



Fraud Detection

- ▶ Anomaly Detection
- ▶ Fraudulent Transactions
- ▶ Using Machine Learning or Deep Learning
- ▶ Specific to Client History/Domicile
- ▶ Counterparty Risk Assessment

Predictions

- ▶ Using Machine Learning
- ▶ Price movement predictions in relation with the set of many factors: other prices/FX/events
- ▶ Recommendations
- ▶ Strategic Decisions





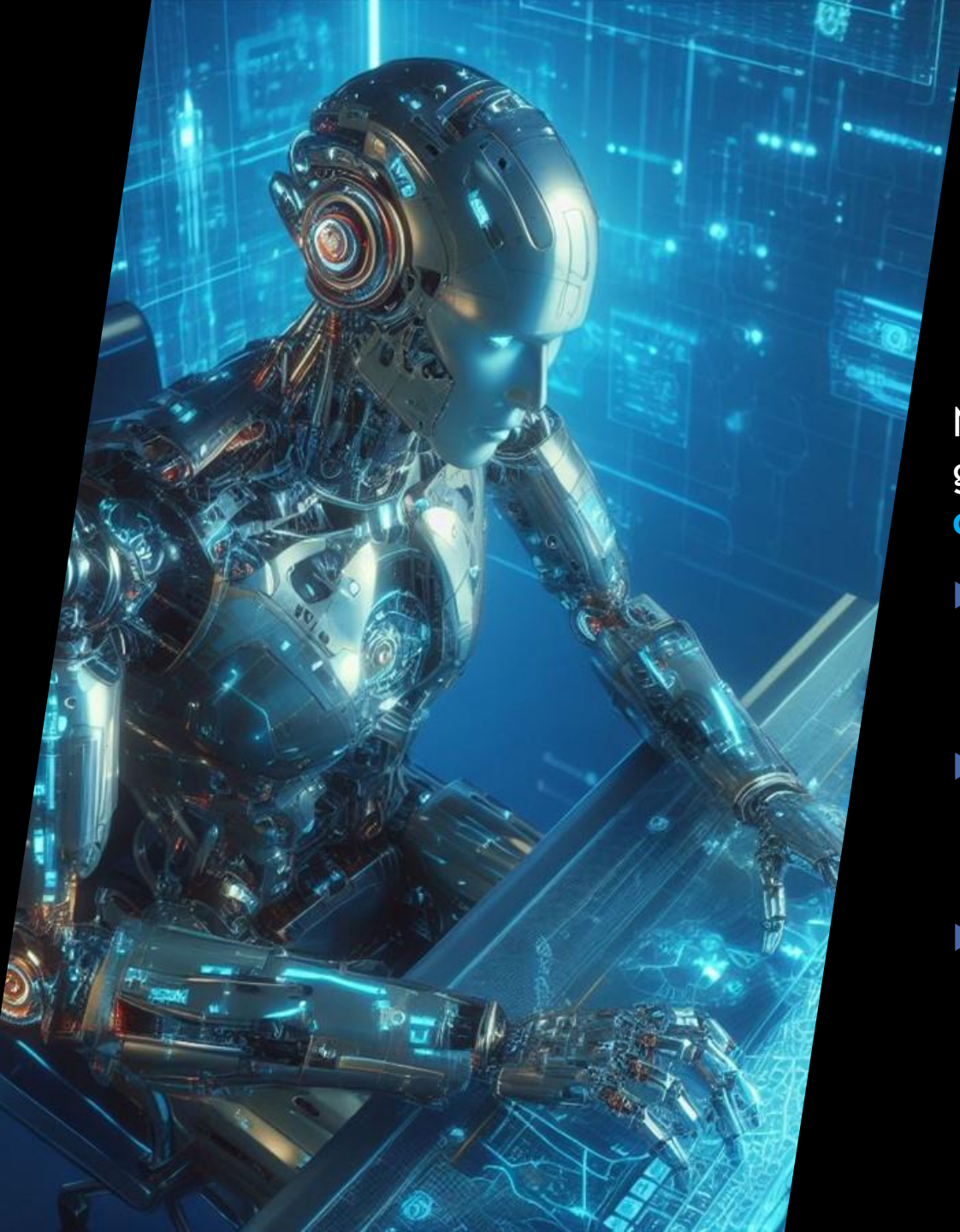
Compliance Assessment

- ▶ Using Deep Learning
- ▶ Credit Scoring
- ▶ Client Risk Category
- ▶ Risk Management



The Challenges to Adoption of Gen AI

- ▶ **Data Accuracy.** Generative AI tools can struggle to perform accurate calculations. Teams can use workarounds to generate content based on calculations performed outside of generative AI tools.
- ▶ **Leaks of Proprietary Data.** When training generative AI models in the public cloud, companies transmit proprietary data that could be leaked in a security breach.
- ▶ **Governance Model.** Generative AI tools lack contextual awareness and real-time information. There is currently no implicit or explicit governance model for output validation.
- ▶ **Hallucinations.** Generative AI can sometimes produce incorrect responses in a highly convincing manner.



Key Takeaways

Now is the time for **CFOs** to learn about the applications of generative AI that will have the most impact and prepare to **capitalize** on emerging capabilities.

- ▶ **Finance teams** are currently using the technology to augment existing processes by creating text and conducting research.
- ▶ Looking ahead, generative AI “copilots” will work **alongside** finance professionals to transform core processes, reinvent business and mitigate risks.
- ▶ The adoption of generative AI in finance entails challenges including accuracy and **data security and privacy**.

THANK YOU

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[insa-software.com](https://www.insa-software.com)

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