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Artificial Intelligence: Walk – Governance & Security

March 13, 2024



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We Can Help You in 3 Ways ...



Software integration

In-house products and solutions allow businesses to leverage leading value.



Data modernization

Every business relies on data insights to make accurate informed decisions.



Automation development

Adding automation to key processes allows businesses to scale efficiently.

Protect your systems and data with a strong *cybersecurity* plan.



Crawl, Walk, Run Series: Artificial Intelligence

Crawl

Understanding the AI
Landscape



Walk

Governance & Security
for AI Apps & Solutions



Run

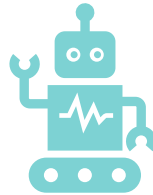
Advanced Solutions
and Ethics



Today's Agenda



Understand importance of
data governance for AI



Explore Compliance &
Cybersecurity Risks related
to AI



Discuss policies and tools
you can use to protect your
organization's data.



Review: Crawl Webinar



What Is GPT?



GPT is a kind of Large Language Model: Able to generate novel, human-like text, write code, and create datasets



Goal of GPT project was to create chat agent that can interact conversationally, generate coherent, relevant content, answer follow up questions.



Trained on websites, books, and online material.



Humans AI trainers helped GPT models provide more desirable outputs via reinforcement learning.



OpenAI released ChatGPT November 2022



Many updates & new generative AI apps & services, including Microsoft Copilot & custom solutions



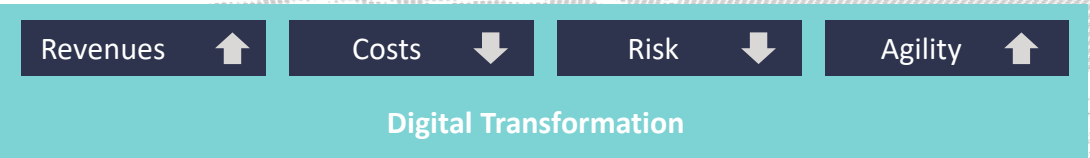
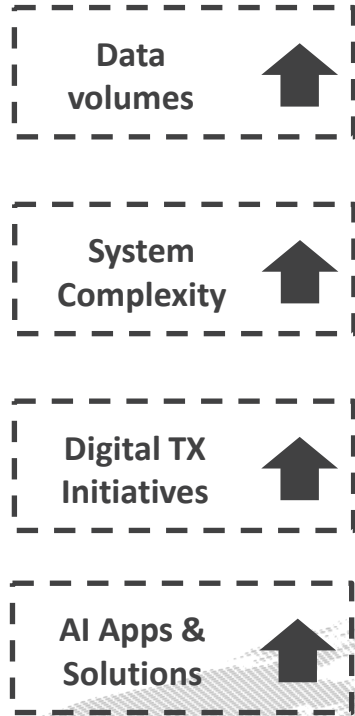


Artificial Intelligence: Moving From Crawl To Walk

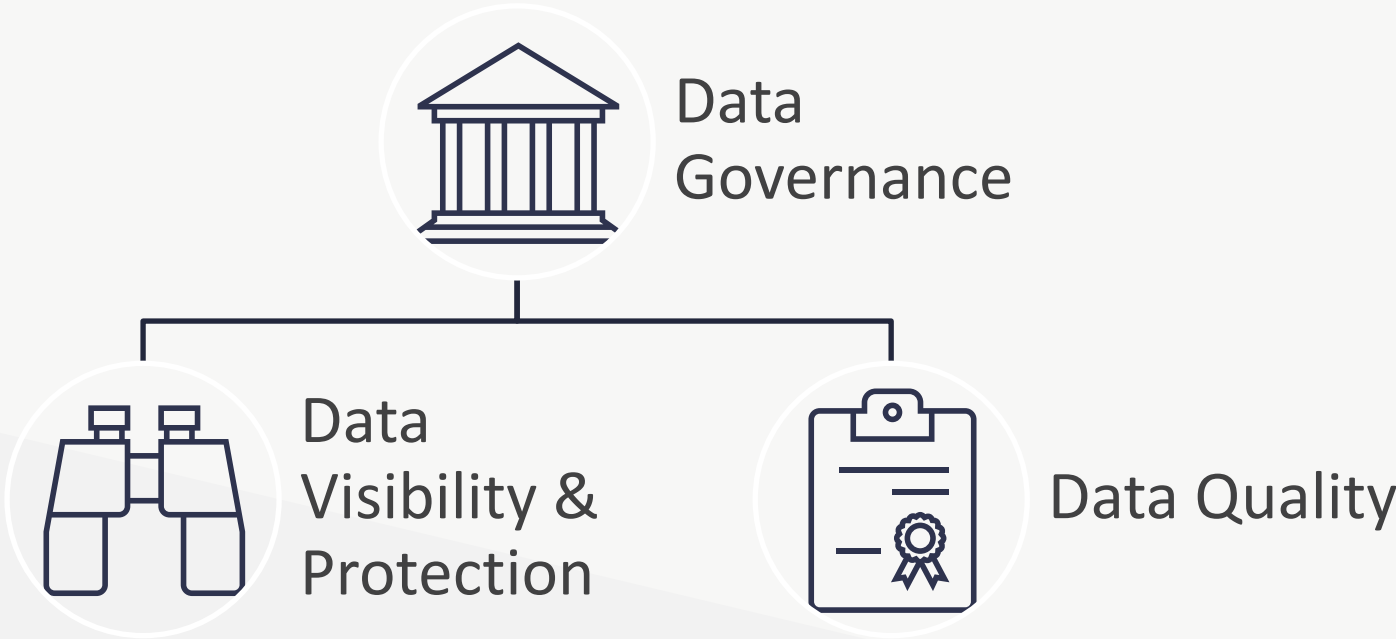
Data Governance and Risk Management Considerations



Characteristics of your Data Estate



Governing Your Data Estate



Polling Question

What does data governance look like at your organization?

- Someone in Finance/Accounting spends a significant portion of their time focused on solving issues that arise.
- Finance, Operations, and IT work together on data governance and it's clear who owns our data and how to resolve issues.
- Oftentimes it feels like data anarchy, and I would like greater governance.
- I'm not sure.





AI Risk Management



AI Policy Considerations

- **Business strategy should inform the AI Policy.**
- **The AI policy should address:**
 - Legal and regulatory requirements
 - Acceptable AI usage, including generative AI usage
 - Quality, Security, Safety, Privacy
 - Risk Management
 - Roles and responsibilities
 - Impact to and from relevant third-parties



Polling Question

Do you use ChatGPT at work?

- All the time.
- A handful of times every month.
- I never have.
- We're not allowed to, and it's blocked.
- We're not supposed to, but it's not blocked.



What Could Go Wrong with Generative AI?



The dark web featured 225,000 sets of OpenAI credentials for sale in 2023 due to information stealers (scmagazine.com).

Access to sensitive data?

- PII
- Intellectual property of companies
- Source code



Of data input into ChatGPT, 11% of that data posted by employees is considered confidential (cyberhaven.com).

Where's the Data?

- For data used in AI models or applications, we should document:
 - What data is being use?
 - Where is data stored?
 - How is data stored?
 - How does data flow through the environment?
 - Who has access to the data?
 - How is access granted and removed?



Data Management and Administration

Consent and Collection

- Privacy laws often require consent from subjects by organizations before obtaining/using personal data.
- Transparency around usage of data for AI is generally required.

Minimization

- Organizations may only collect necessary data for intended AI purposes.
- This may limit training.



Data Retention



Privacy laws often require organizations to establish data retention policies and delete data that is no longer necessary.



This could affect AI systems that rely on historical data.

Artificial Intelligence and Cyber Risks



AI model
manipulation



AI enhanced
cybersecurity attacks



AI Deepfakes

Model Manipulation

- Indirect Prompt Injection Attack.
 - Attackers may be able to supersede a large language model's instructions to perform harmful/inaccurate responses.
- Corrupting data used for training AI models via data poisoning.



AI & Cybersecurity Attacks

- Threat actors are using Large Language Models to enhance their malicious activities.
- Activities include:
 - Information gathering
 - Interpreting technical documentation
 - Scripting
 - Social engineering
 - Impersonation
 - Evading security features



AI Deepfakes

- **“Finance worker pays out \$25 million after video call with deepfake ‘chief financial officer’” – CNN**
 - Fraudster invited employee to a video call where several deep faked “employees” were on, including the CFO.



AI Risks and Education



AI Risk Awareness Training should be provided to all employees at an organization at least annually, and at onboarding.



Enhanced training should be given to those with access to AI resources.





Governance, Security & Compliance in Practice

A brief survey of common AI tools



Governance & Security Platforms for AI

Tools should enable

- Centralized Data Management & Data Processing
- Data Cataloging
- Data Governance & Policy Compliance
- Security Administration
- Threat Monitoring



OpenAI's ChatGPT

ChatGPT

- ChatGPT Free & ChatGPT Plus collect any data entered by default for model training
- Turning off data collection is available
 - But also disables history of chats

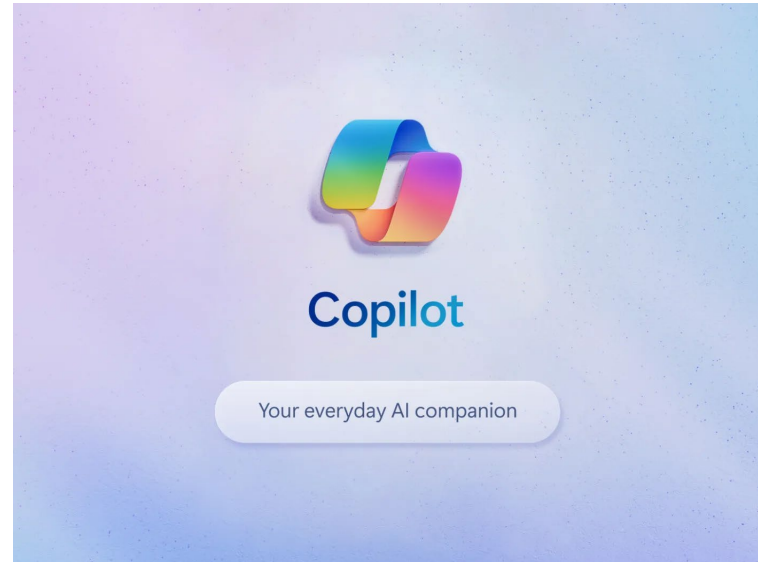
ChatGPT Team & Enterprise

- Customer prompts or data are not used for training models
- Starts at \$25/user/month (annual subscription)



Microsoft Copilots

- Data is temporarily stored by Microsoft.
- Data is not used to train models.
- Copilot Chat
 - ChatGPT-style addon to Microsoft 365 at \$30/user/month



Other Tools



Microsoft Fabric

Data science
Data engineering
Data analytics



Microsoft Purview

Data governance, management & protection



Microsoft Security

Sentinel
Defender
Security Copilot – and more

Where to Go from Here?

3 Part Series – Crawl,
Walk, Run – Artificial
Intelligence

- Crawl – January 26, 2024
- Walk – Today
- Run – May 15, 2024

Interested in
discussing further?

- Click the “contact me for more information button”

Thanks again!

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Thank you!

