Microsoft

Data Engineering in Age of AI

Career: Challenges, Opportunities

Our story. An aspiration | Land of Data | Reaching for AI

We humans are a bunch of explorers.

..our story

Islands.

Oceans.

Space.

..an aspiration
Where’s the scale & value today?
Space!

..an aspiration
Why Space Economy?
Transformative – Weather, Telecom, Security
Pathways – source or create
Endless possibilities

..an aspiration

What’s stopping us from Space?

Gravity!

Land of Data

..let’s go: data

Business runs on Apps.

..let’s go: data

Apps produce data.

Business runs on Apps.

..let’s go: data

Different understanding.
Different Business Groups.

Apps produce data.

Business runs on Apps.

..let’s go: data

Non-conformed / Disjointed Data.

Different understanding.

Different Business Groups.

Apps produce data.

Business runs on Apps.

..let’s go: data

Data Platform: Conformed / Consolidated

Non-conformed / Disjointed Data.

Different understanding.

Different Business Groups.

Apps produce data.

Business runs on Apps.

..let’s go: data

Business =(pull)=> Conformed Data (value)

Data Platform: Conformed, Consolidated

Non-conformed Data.

Different understanding.

Different Business Groups.

Apps produce data.

Business runs on Apps.

..let’s go: data

Let’s call it...

Gravity

Reaching for AI

Transformative | Buy or Build | Endless possibilities

..transformative, buy or build

Sales Copilot

Search – Bing, Edge

Security Copilot

GitHub Copilot

Fabric, Power BI

Azure AI Services

..endless possibilities

We are moving from auto-pilot era to the co-pilot era of AI !

Satya Nadella

..endless possibilities

From		To
Tools	→	Creative assistant
Product specific	→	Cross-fitting
Data input	→	Content generation
Following commands	→	Provides recommendations, with human in the loop
Uses specialized languages	→	Uses natural language

..endless possibilities

discuss Possibilities

loop Endlessly

..endless possibilities

Take off..

Be Grounded..

Discuss

Outcome & Value focus.

Environment and Priorities.

Bias and Disablers.

Guardrails.

Loop

Dev – Test – Deliver Fast.

Integration. End Points.

Responsible AI. Access.

Controls and Policies.

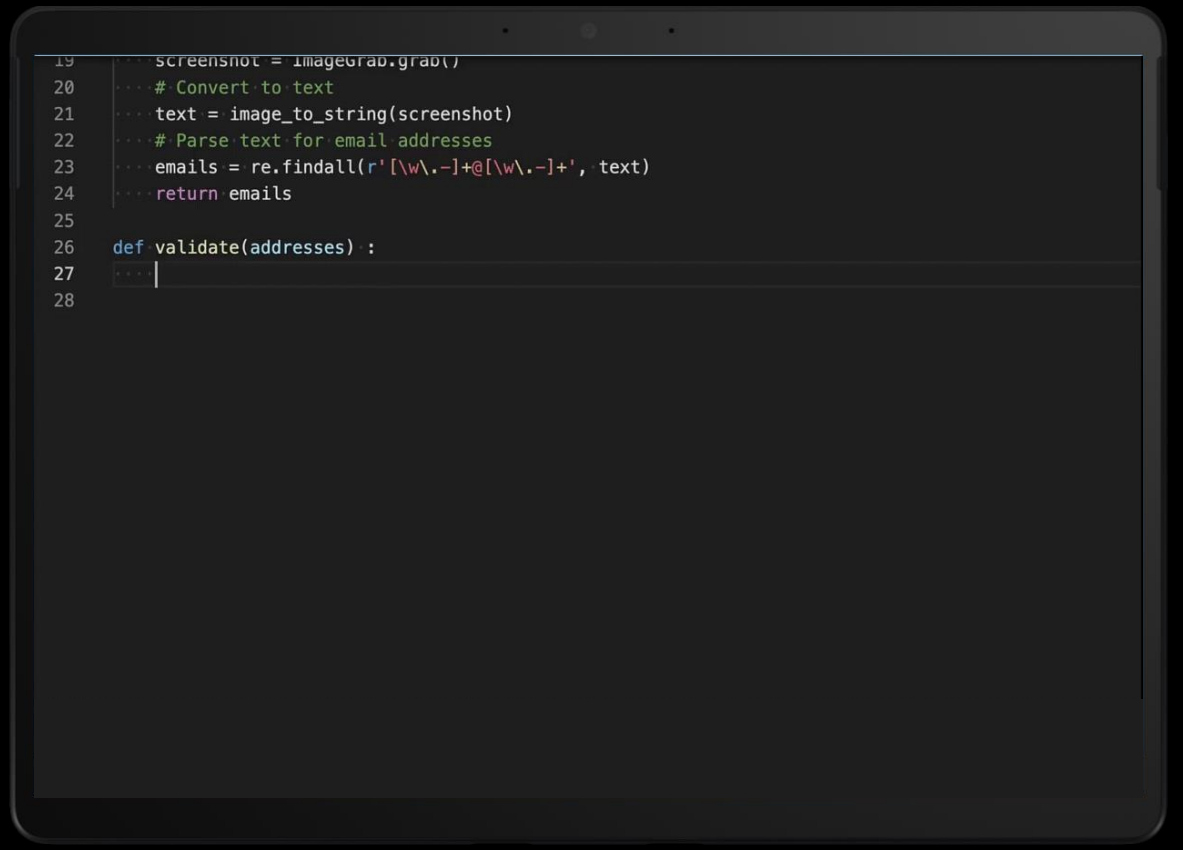
..examples

GitHub Copilot

Pair Programming. Almost.

Contextual. Look left. Look right.

Curvature. Rate of Change. Big / Small.



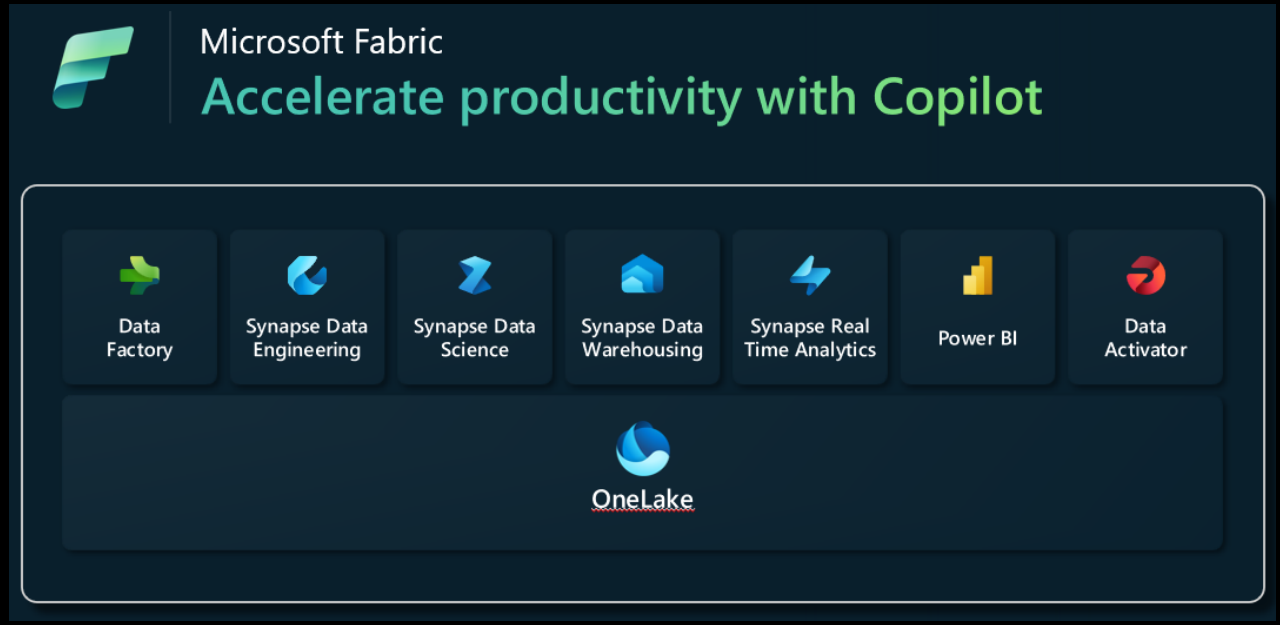
..examples

Microsoft Fabric

Unified. Scale + Multi-faceted.

Governance. Agile + Controls.

For Age of AI. Collect => Deliver.



Questions. Resources.

aka.ms/fabric
aka.ms/azureai
aka.ms/azure-openai
aka.ms/githubcopilot

aka.ms/bing
aka.ms/salescopilot
aka.ms/securitycopilot

aka.ms/learn
aka.ms/responsibleai
aka.ms/artificialintelligence

Microsoft

Thank you