

Beyond the Hype: Thinking Machines and the Al Agents Fuelling our Future

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CEO
Inference Group







What is an Al Expert?









Draft email

- personalize the tone and length.
- Draft an email to [name] to set up a meeting to discuss the holiday policy. Make it short and casual in tone.



Help me write ...

- jumpstart creativity and write and edit like a pro by getting a first draft in seconds.
- Write a time-off and holiday policy based on the attached



Write a chatbot to answer questions...

- get quick answers to questions based on information stored in SharePoint
- Create a Bot called NeilBot which is configured to look through Inference Group policies, answer questions about the policies for colleagues on everything from health and safety to time off and holiday requests."



Connect chatbot to tools

- link copilot to the tools you use everyday to automate common tasks
- → Book a holiday between X/X/X and Y/Y/Y



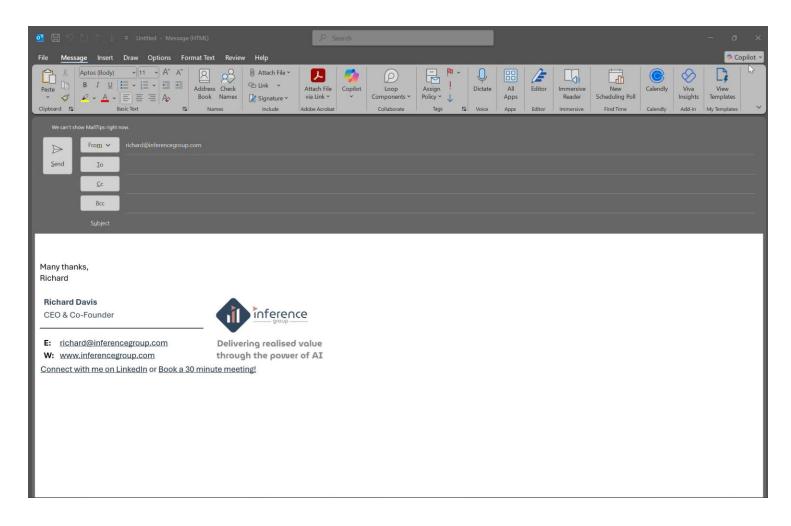
Create videos and presentations

- explain concepts, create avatars and generate presentations to explain concepts
- Create a presentation to explain the Time Off and Holiday Policy





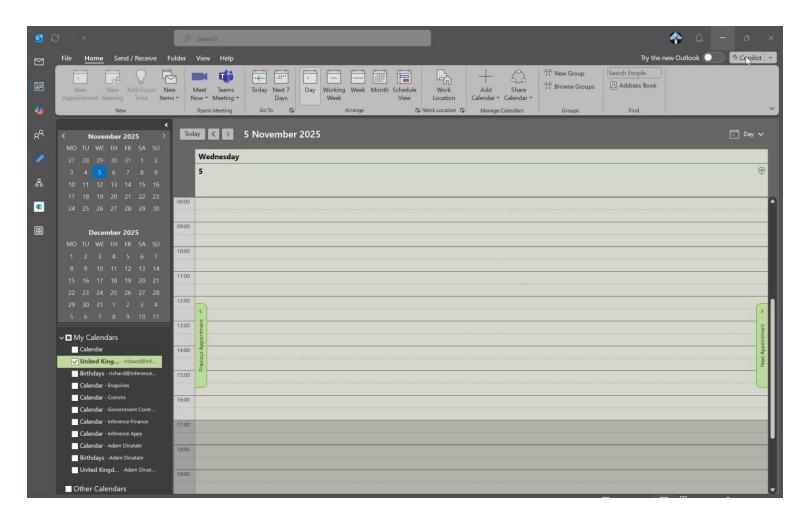








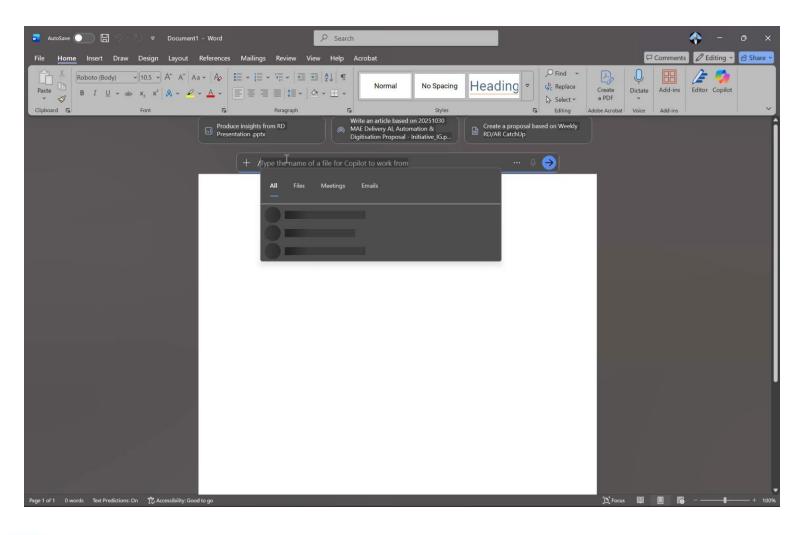








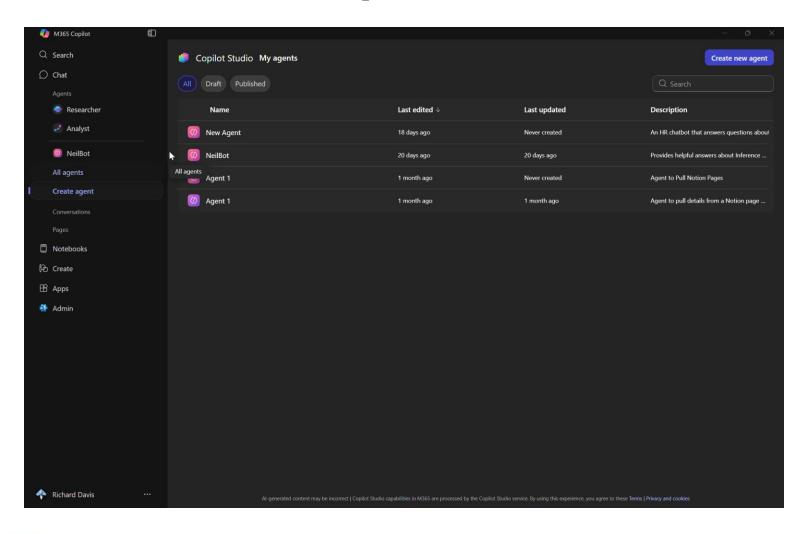








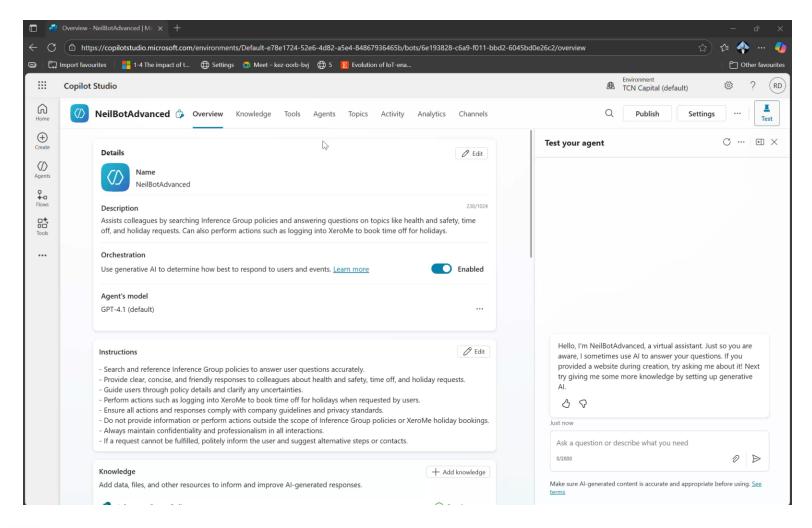
























The History of Al

"By 2025, AI will be involved in 50% of business decisions"

IDC

1950s

The birth of Al

1950:

Turing defines a test for machine intelligence

1957:

First Neural Networks trained

1955:

The term AI was first coined

1960s

Growing Interest

1961:

First industrial robot goes to work

1964:

"Eliza" the first chatbot is written 1980-1990

Al Winter

1980s:

Expert systems start to be deployed

1991:

"Eigenfaces" facial recognition system created

1997:

Deep Blue beats Kasparov at chess 2000s

Big Data

2006:

Hinton coins the term "Deep Learning"

2001:

Roomba puts
Al in the home
for the first
time

2009:

ImageNet created to train Al with images

2010:

First enterprise applications for AI

2010-2020

Al Everywhere

2011:

Watson beats human players at Jeopardy

2011-2014:

Mobile assistants become ubiquitous

2014:

First Generative Adversarial Networks launched

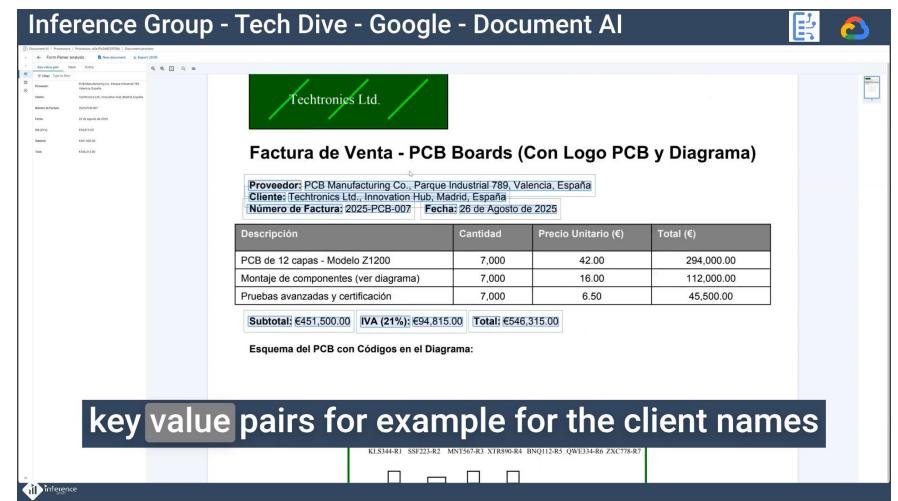
2017:

Eirst paper on transformers written

2021+:

GPTs launched, ChatGPT becomes fastest app to 1m users ever











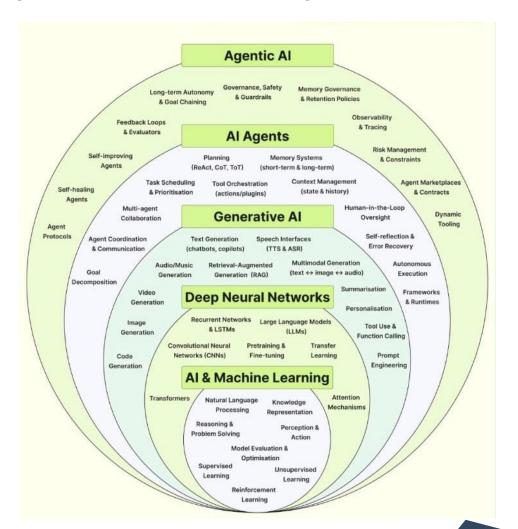
I've heard of machine learning, and deep learning and neural networks and generative and....

Prompt:

show me an image that demonstrates the terminology of AI including, Machine learning, deep learning, feature selection, etc. Think deeply and ensure that all terms are covered. Show this as a Venn diagram that clearly shows that AI is the "all encompassing term" but also that things like Artificial Neural Networks and Ensemble methods are Machine Learning, and that Generative AI is a "Foundation model" that uses ANNs (specifically Transformers) with reinforcement learning for chat functionality.





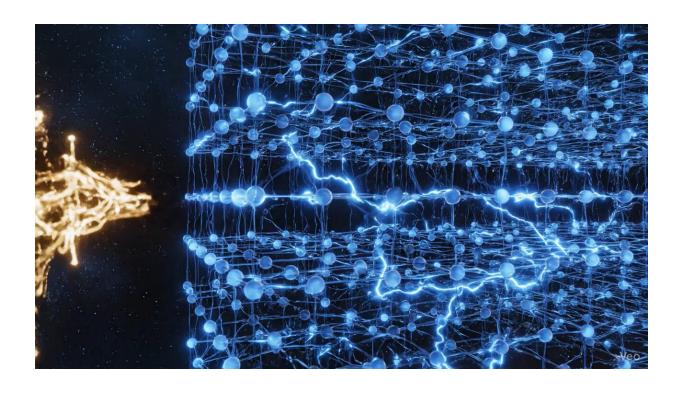




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Prompt:

a video of an artificial neural network being trained by data, feeding the data into the layers of the neural network to produce an output. Based on the outputs calculating an error from the underlying data, and updating the weights to minimise this error. This process continues a number of times until the error is minimised











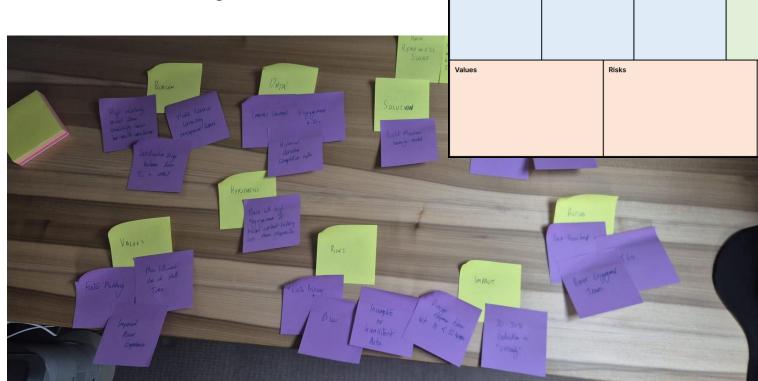
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Data Product Canvas

Performance / Impact

Prompt:

An ideation session was held to generate ideas for a customer product recommendation engine. The Post-Its from the session are shown in the first diagram. Can you put these into a Data Product Canvas template shown in the second diagram?









Pro

An ia custo Post diagi Canv

Problem

High uncertainty around donor availability causes last-minute cancellations.

Wasted resources contacting unresponsive donors.

Lack of coordination between donor teams and contact centres.

Data

Comms channel

Engagement metrics

Historical donation / completion rates

Contact history

Donor demographics

Hypothesis

Donors with higher engagement and relevant contact history are more responsive.

Build Machine Learning model to generate a Donor Readiness Score.

Predict whether a donor will be ready and available within 2 days.

KPIs







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Prompt:

Context: You are an expert in business process design and operational governance. I've provided the transcript of a recorded demonstration showing how to perform a task using Microsoft 365 and webbased tools. The goal is to transform this into a **professional Standard Operating Procedure (SOP)** document suitable for an enterprise knowledge base.

Inputs Provided:

- Full transcript of narrated steps
- Screenshots (if available).

Your tasks:

- 1. Extract and structure the process into clearly numbered procedural steps (1, 2, 3...)
- 2. For each step, include:
 - · Action: What the user must do.
 - Rationale: Why this action is necessary (e.g., data integrity, compliance, version control).
 - · Risks / Failure Modes: What could go wrong and how to mitigate.
 - Escalation / Support Path: Who to contact or what to do if issues arise.

3. Add section headings following this structure:

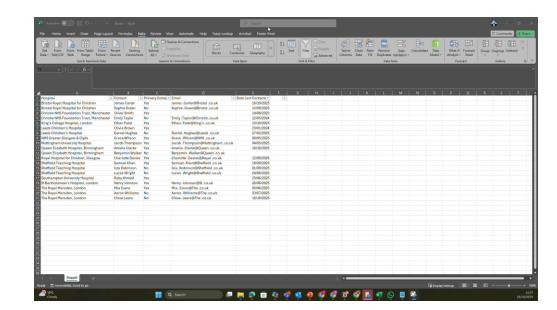
- Purpose
- · Scope and Applicability
- Responsibilities and Roles
- · Prerequisites and Tools Required
- Detailed Step-by-Step Procedure
- Risk Management and Escalation Matrix
- Quality Assurance / Verification
- Records and Retention Requirements
- Revision History

4. Integrate visuals:

- Include each supplied screenshot in the most relevant step with a caption.
- Where appropriate, generate or describe a technical workflow diagram (using text labels...









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Standard Operating Procedure (SOP) Maintaining a Partner Contact Tracker in Microsoft 365 Excel

Executive Summary

This SOP standardizes how to maintain a contact tracker in Microsoft 365 Excel, including capturing contact details, recording last outreach, and automatically flagging contacts that are overdue for follow-up. It covers structure, data validation, formulas, conditional formatting, and governance (QA, escalation, and retention). Following this process improves pipeline discipline, auditability, and team collaboration across SharePoint/OneDrive.

Purpose

Define a consistent, auditable process to create and maintain a Microsoft 365 Excel contact tracker with an automated "stale contact" indicator based on Date Last Contact.

Scope and Applicability

Applicable to all teams maintaining external stakeholder lists where follow-up tracking is required.

Responsibilities and Roles

Data Owner: Defines fields and review cadence.
Editor: Updates rows and ensures accuracy.
Reviewer: Performs monthly QA checks.
IT/M365 Admin: Manages SharePoint/OneDrive permissions.

Prerequisites and Tools Required

Microsoft 365 account, Excel desktop/web app, SharePoint/OneDrive access, defined follow-up threshold, and optional shared mailbox for escalation.

Detailed Step-by-Step Procedure

1. Step 1 — Create/Locate the workbook in SharePoint or OneDrive

Action: Open the SharePoint/OneDrive library, create or open the Contact Tracker workbook, and confirm Autosave is on.



How does Al work?

"90% of the worlds data was generated in the last two years"

Forbes

"Al can analyse data 1000 times faster than humans"











Data Collection Data Processing Model Training Prediction/ Decision Making

Production and Scale



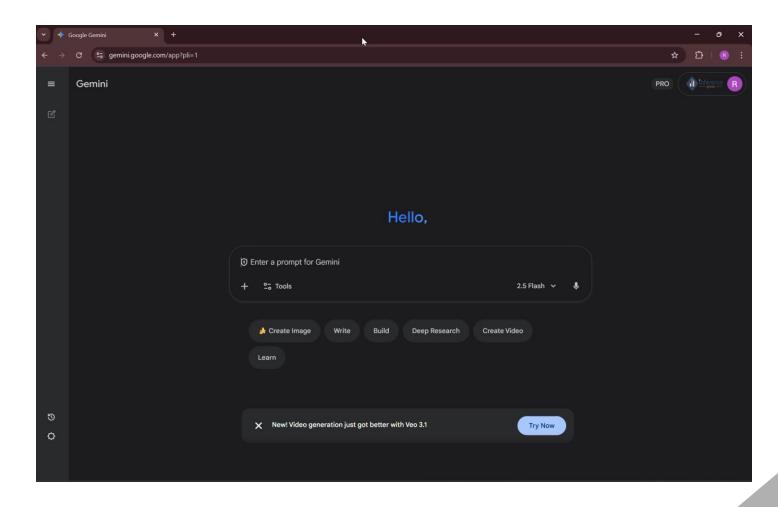




How does Al work?

Prompt:

Can you create me website that shows a representation of Data, a multilayered artificial neural network and "output". It should enable me to click on a button to "feedforward" which will in sequence light up the data, show it passing through the network and producing an output; a second button will show the error calculation and then the weights in the network being updated based on that error. A final button will enable the process to run rapidly over 100 iterations showing a graph that updates over each iteration showing the iteration number by the error produced with the error reducing on each run.



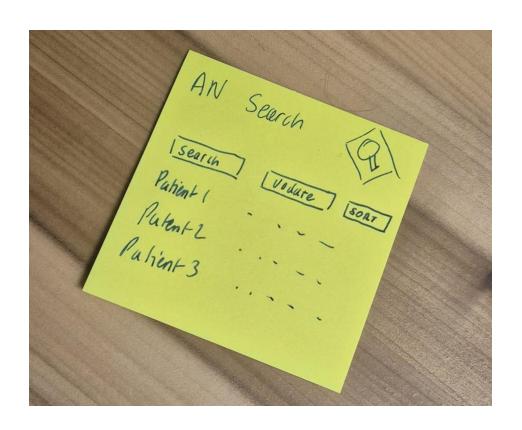






Prompt:

Can you create me a clickable mockup of this application. It should show potential VIP customers based on their recent transactions behaviour



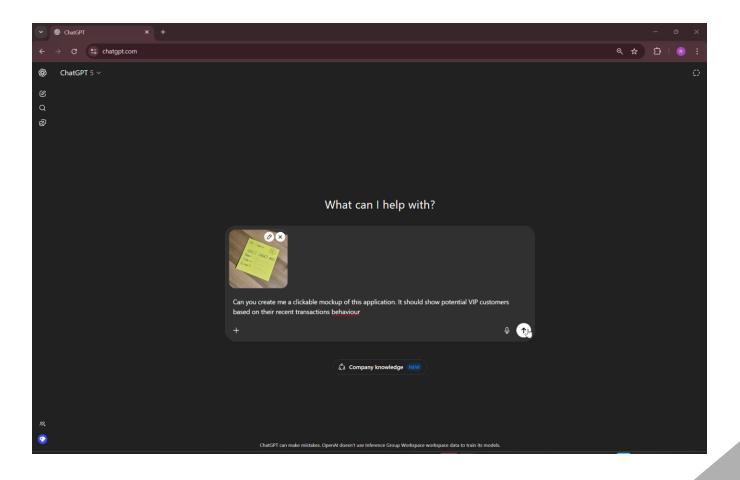






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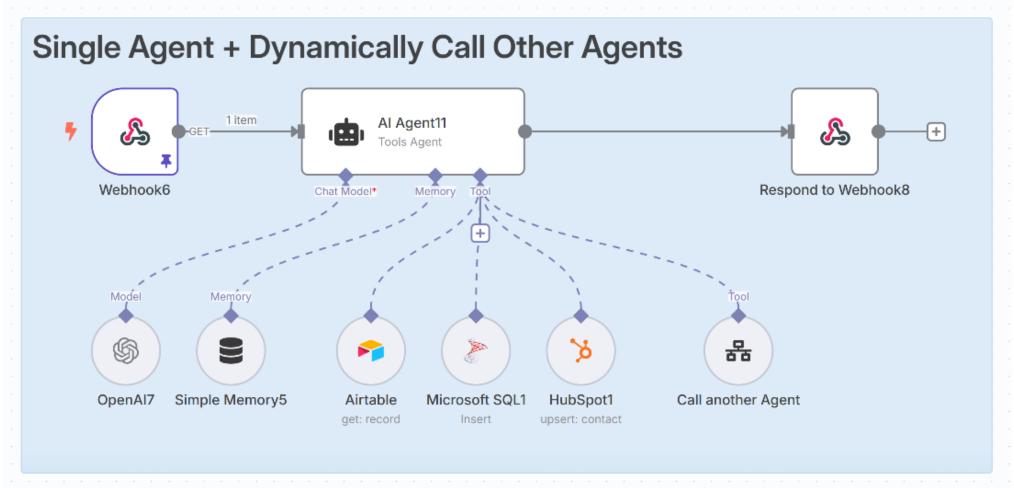






What is an Agent

Agents are AI capabilities that have memory and access to tools

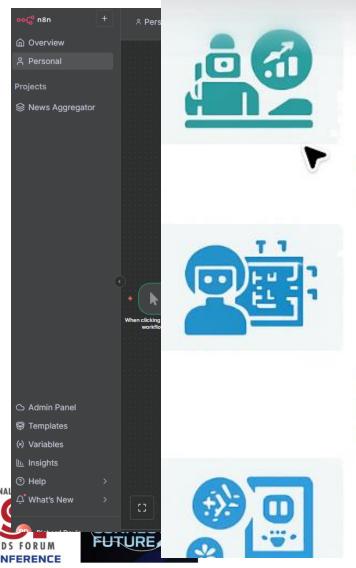








Al Agent Newsletter Generation



Meet the AI chatbots replacing India's call-center workers

Companies in India is increasingly using AI to mplaceli-center jobs. The conversational AI for customer support has-risen.

https://www.reuters.com/fechnology/ aimtropic-aims-triplé-annuálizd-revenué-centor-jac-2024-04-16/

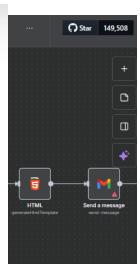
BlackRock, Nvidia-backed group strikes \$408 AI data center deal

An Investor group led by Blackrock and Nvidia back an oven pe-40 billion partnership create and operate Al-focused data-centers.

hltps://www.reuters.com/fechnology/ blackrack-nvidia-backed-greup-strikes-408-4-idata-éenter-dèli-20-4,14-15/

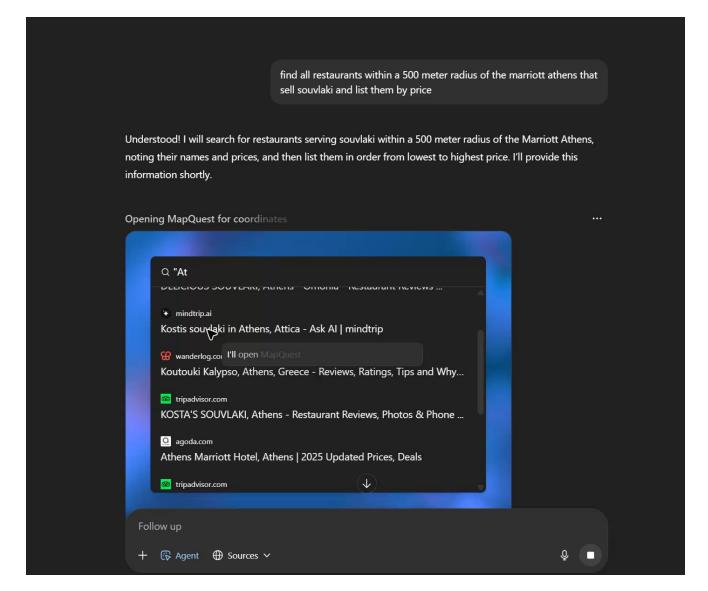
Meta taps Arm to power Al recommendations across Facebook, Instagram

Meta Platforms has partnered with Arm Hol dling aste center chinins





Agentic Web



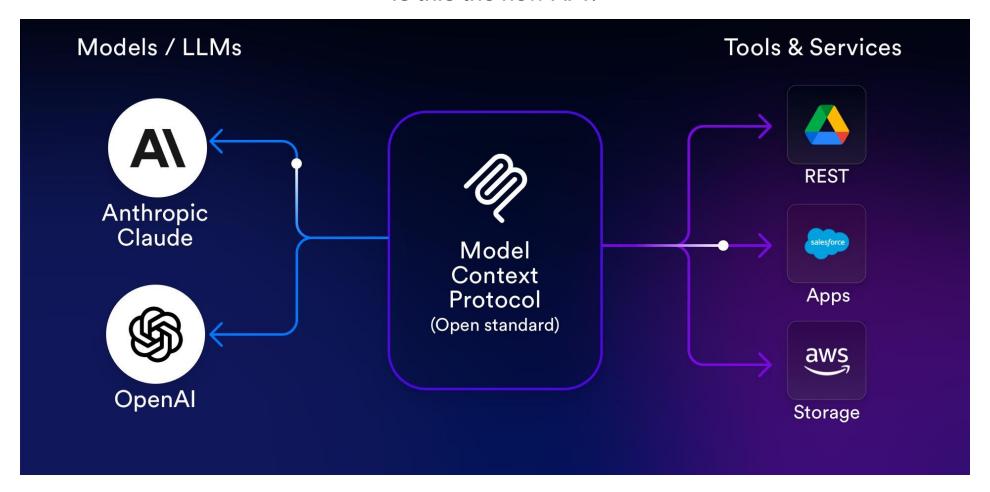






Model Context Protocol

Is this the new API?







The team have previously worked on data, AI and tech solutions with the following companies:



Why Inference Group?

Inference Group is a Microsoft ISD Partner specialising in Al







Leadership

Develop leadership capabilities to leverage AI for business outcomes

- ➤ Exec Sponsorship
- ➤ Align AI to business strategy
- ➤ Provide clarity & prioritisation
- ➤ Best Practice: Al Council



Human Change

Manage the human transformation with robust user enablement programs

- ➤ User enablement program
- Communications & community
- ➤ Skilling and training
- Best Practice: Community of Practice and Copilot dashboard



Technical Readiness

Build and iterate technical skills to deliver on business results

- Secure your data infrastructure
- ➤ Policy review
- Extend to high value line of business scenarios
- ➤ Best Practice: Optimisation assessment

Responsible AI principles













Thank You

Any Questions









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