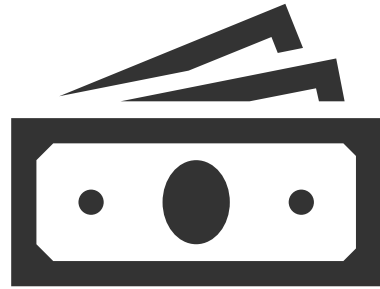


Skalerbar generativ AI i sundhed



Potentialet af LLM i radiologi som visitorator

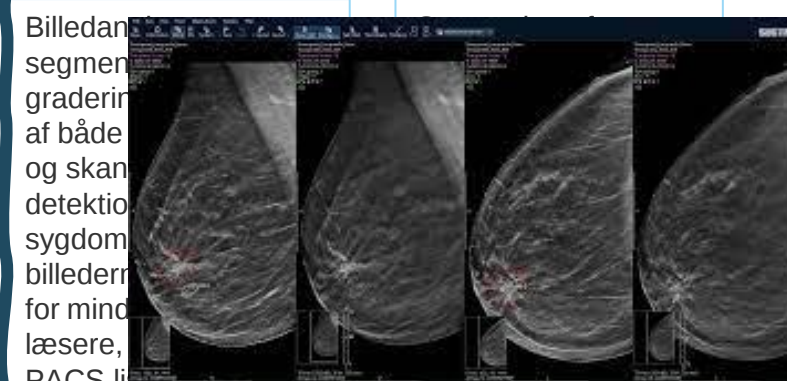
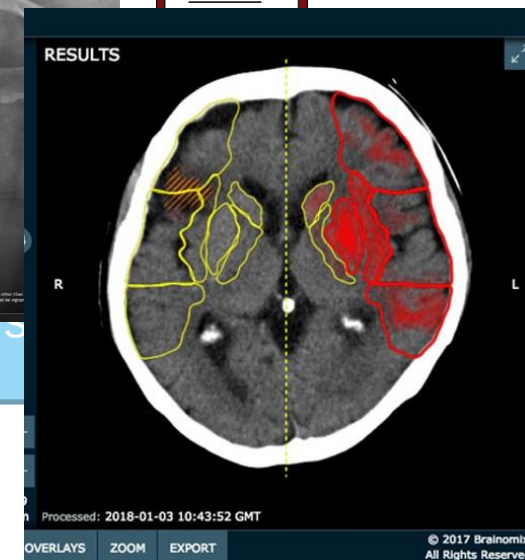
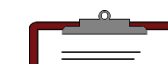
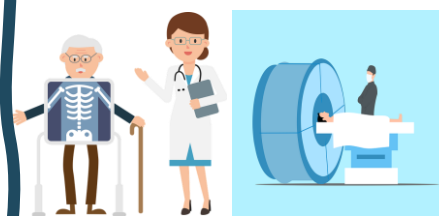


Lønninger: 2.000.000 DKK
om året per hospital



Frigivelse af special-læger





Henvisning

Visitation

Protokollering

Røntgen og Skanning

Billedanalyse

Tjek af relevante kliniske og biokemiske informationer er tilstede for at lave undersøgelsen i henhold til kliniske retningslinjer og lokale instrukser

Tjek af relevante informationer er til stede for at protokollere og booke undersøgelsen f.eks MR skema, normal nyrefunktion ved kontrast indgift

Protokollering og Bookning af relevant undersøgelse efter lokale retningslinjer

Billedgenerering til optimering af kvalitet, reduktion af støj, hurtigere skanninger og forbedrede metoder

Billedanalyse af segmentering af både normale og skannede billeder til detektion af sygdomme og billeder for mindst læsere, PACS liste og fund af normale billeder.

LLM i Radiologi



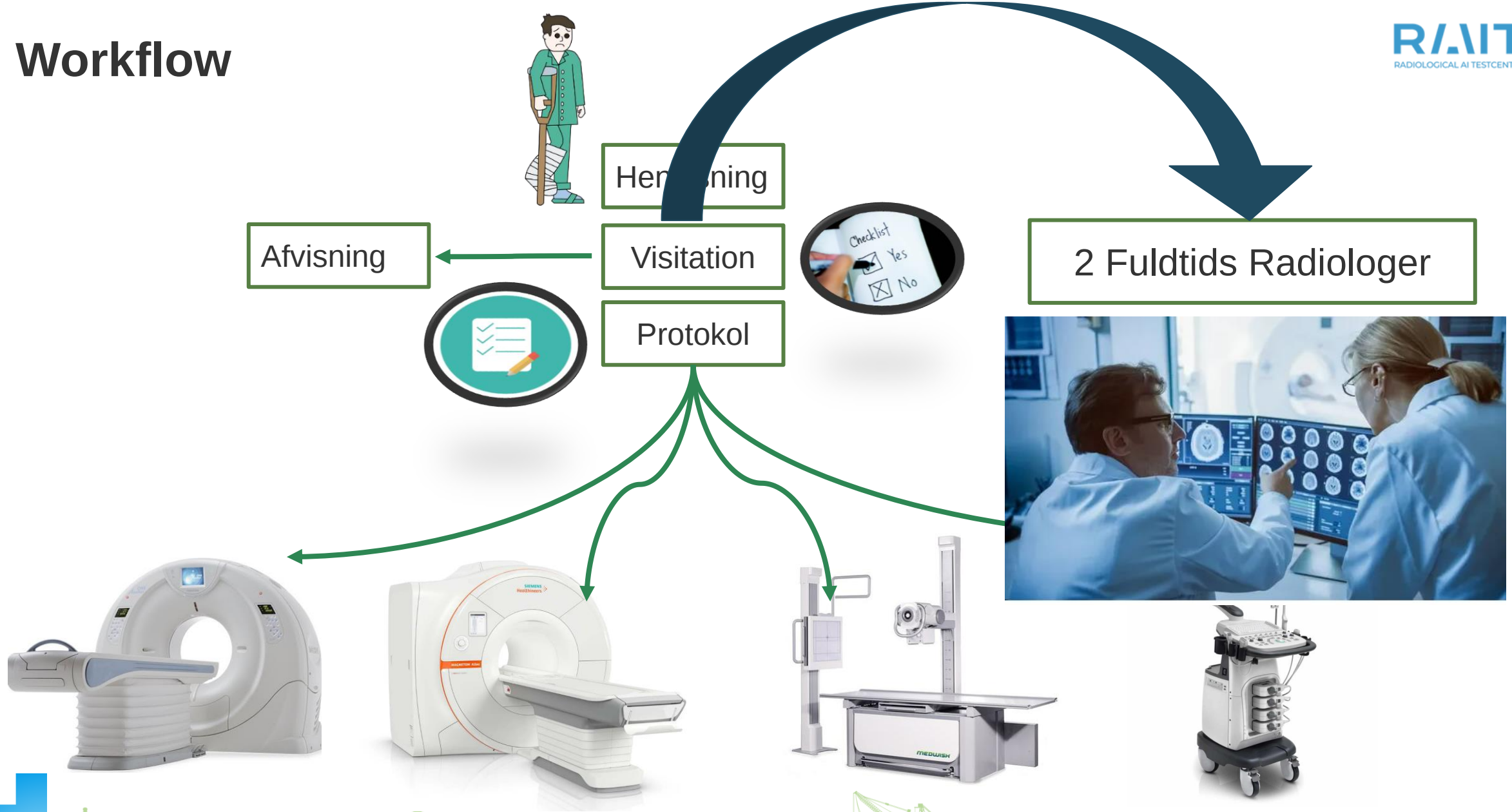
Visitation



Protokol



Workflow





Henvisning

"77 årig kvinde med Aktuelt bevidsthedstab og hovedpine. Cancer mammae. se-creatinin 66. Ønsker CT- hjerne"

Visitation

Giver det mening ?
Normal nyrefunktion ?
Kontraindikationer ?

Protokol

CT, MR, Røntgen eller Ultralyd ?
Hvilken anatomi ?
Hvilke sekvenser ?
Kontraststof ?

CT, Hjerne, Kontraststof

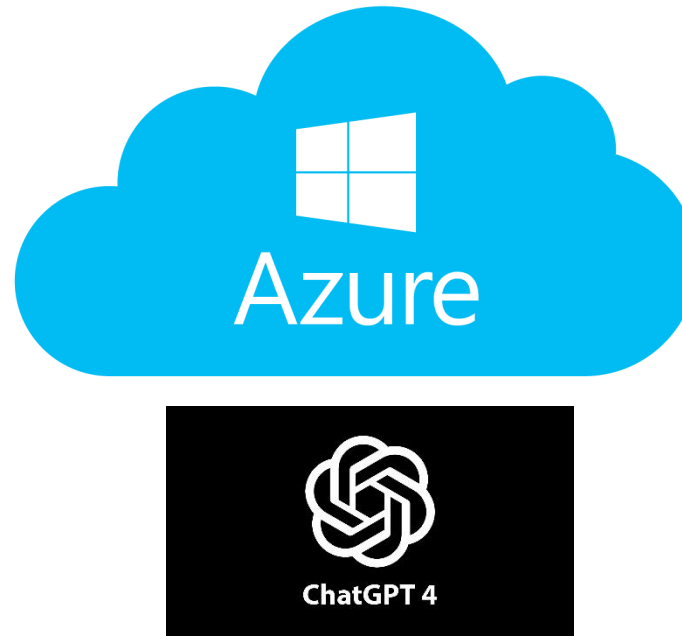
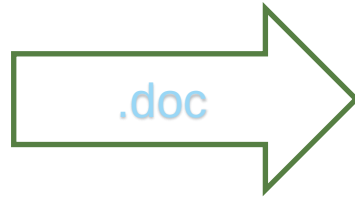
Protokol: CT 1.2



LLM som visitorator

"77 årig kvinde med Bevidsthedstab og hovedpine, kendt Cancer mammae. se-creatinin 66. Ønsker CT- hjerne"

Protokol: CT 1.2 (Hjerne med kontrast)



Udfordring

Patient Journal



Center for IT og Medicoteknologi

- Databeskyttelsesforordning (GDPR)
- Sundhedsloven
- Administration af brugeradgang



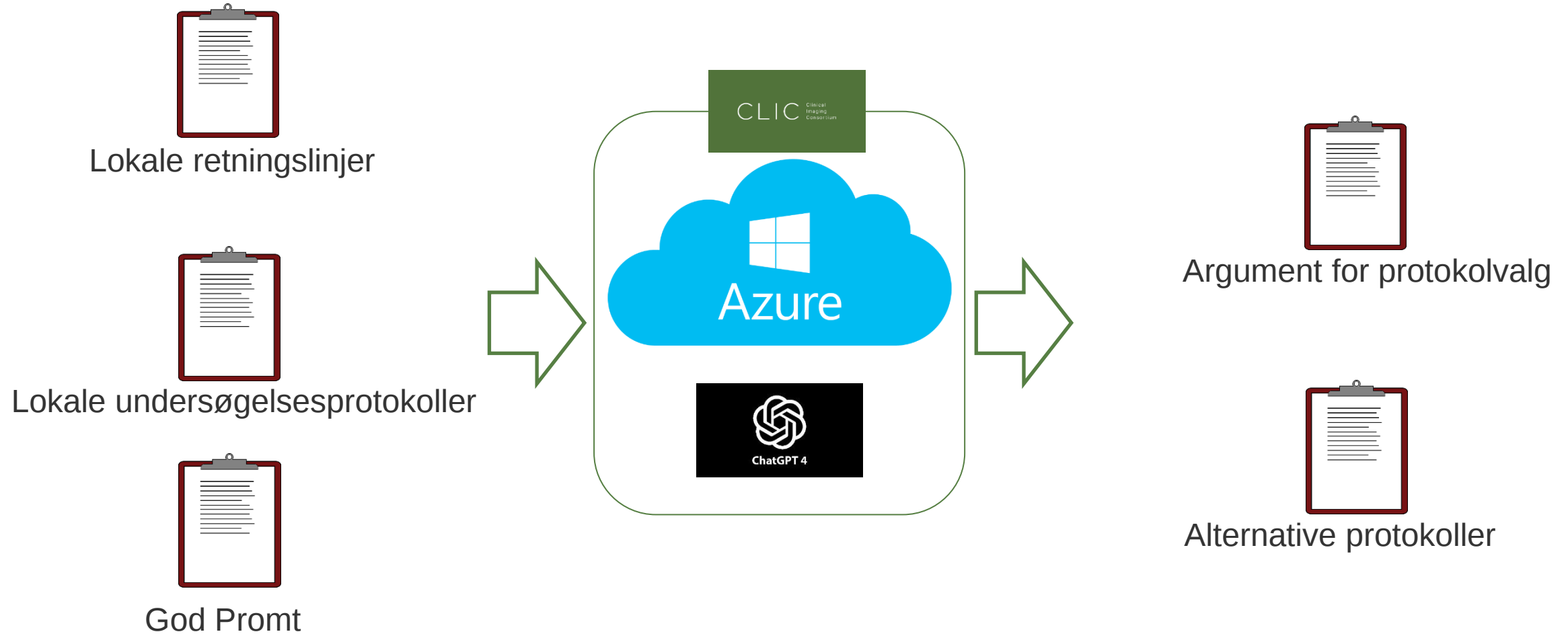
CLIC Clinical Imaging Consortium



ChatGPT 4



Skalerbarhed



Use-cases

Visitation af knogler & ryg



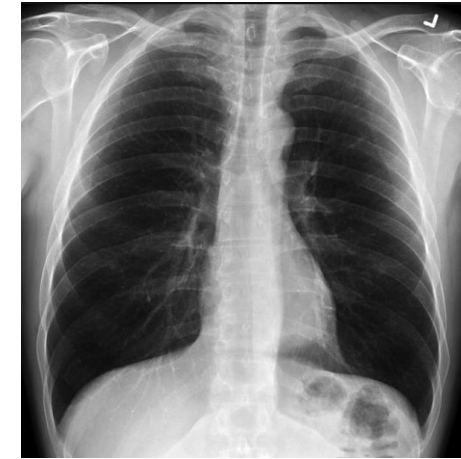
Protokolér

CT, MR & Røntgen undersøgelser

Afvis undersøgelser

Identificér manglende henvisnings informationer

Lungekræft traigering



Lungekræft pakke

Rygning, hoste, >40 år...

Kræft pakke

Vægttab, ekstrem træthed..

Udredning

Lette symptomer, lav risiko



Opmærksomhedspunkter

1

Låst LLM, undgå
fluktuationer

2

Datasikkerhed &
jura

3

CE godkendelse
som medicinsk
udstyr ?

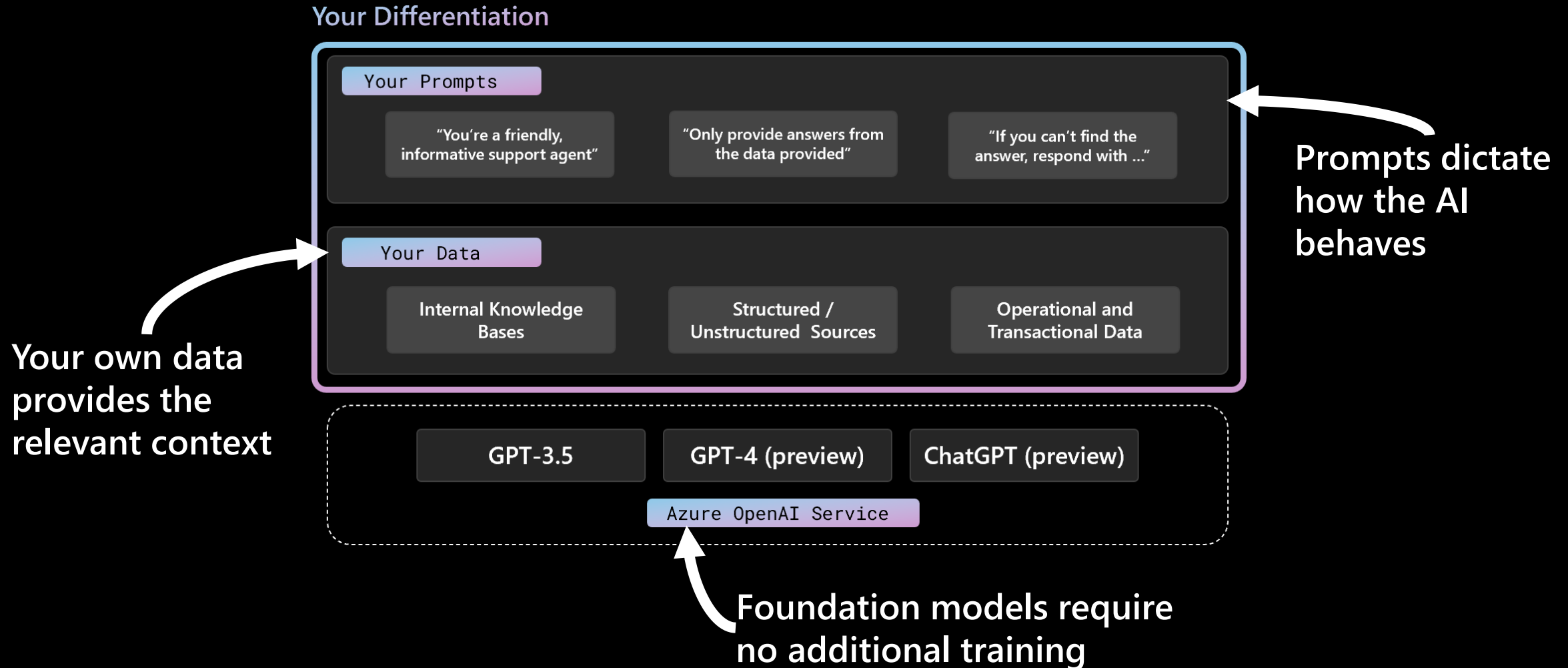


Rasmus Knappe

Senior Cloud Solution Architect Manager, Data & AI
Microsoft Danmark



Anyone can build a Copilot – The tools are available





Azure AI Studio

A unified platform for developing generative AI apps and custom copilot experiences



Unified platform

Comprehensive AI Tools
Code-centric Developer experiences



Data & search

Data integration
Hybrid vector search



Foundation models

Best in class and open model catalog
Multimodal



Safe & responsible AI

Content classification
Model monitoring
Jailbreak risk detection



Full development lifecycle

Prompt flow
LLMOps
Model monitoring

Explore, build, evaluate, and deploy AI responsibly

Pioneering new engineering tools and practices



Evaluation and
RAI dashboard

Configure the threshold levels for your filter

The default content filtering configuration is set to filter at the medium severity threshold for all four content harms categories for both, prompts and completions. [Learn more about content filters](#)

Give your configuration a custom name: ⓘ *

Enter the name of the content filter

User prompts (Input)

Category	Threshold level
☒ Violence	Medium Block Medium and High
☒ Hate	Medium Block Medium and High
☒ Sexual	Medium Block Medium and High
☒ Self-harm	Medium Block Medium and High

Model completions (Output)

Category	Threshold level
☒ Violence	Medium Block Medium and High
☒ Hate	Medium Block Medium and High
☒ Sexual	Medium Block Medium and High
☒ Self-harm	Medium Block Medium and High

Content
safety

Microsoft Cloud

Runs on **trust**

Your data is **your** data

Data is stored encrypted in **your** Azure subscription

Your data from any fine-tuning is **not** used to train the foundation AI models

Azure OpenAI Service provisioned in **your** Azure subscription

Model fine tuning stays in **your** Azure subscription and never moves into the foundation AI models

Your data is **protected** by the most comprehensive enterprise compliance and security controls

Encrypted with Customer Managed Keys

Private Virtual Networks, Role Based Access Control

Soc2, ISO, HIPAA, CSA STAR Compliant