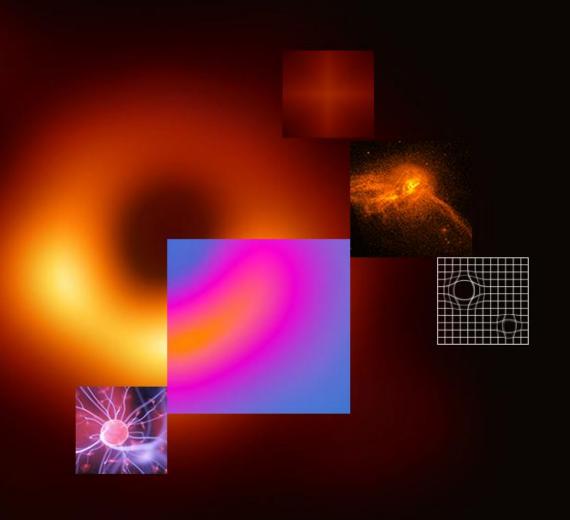


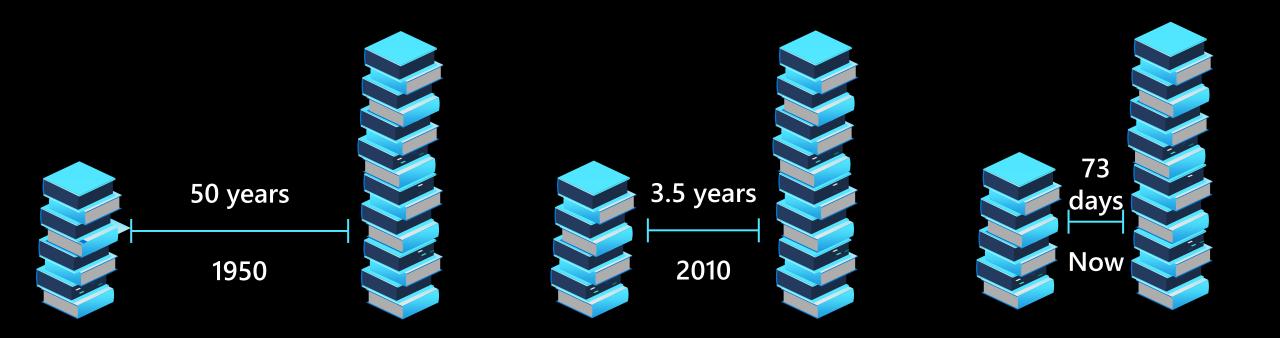
Microsoft Al for Healthcare

Manuel Dias

National Technology Officer & Executive Board Member www.linkedin.com/in/mdias



MEDICAL KNOWLEDGE GROWING AT AN EXPONENTIAL SPEED





1GB Data

On average of healthrelated data created daily per person

2 Billion

people in 2050 over 60 years old, 10% increase over today's population

97% patients

raised their expectations on healthcare services, in quality, agility and intelligence

How Technology transforms Healthcare



Enhance patient engagement





Improve clinical and operational outcomes

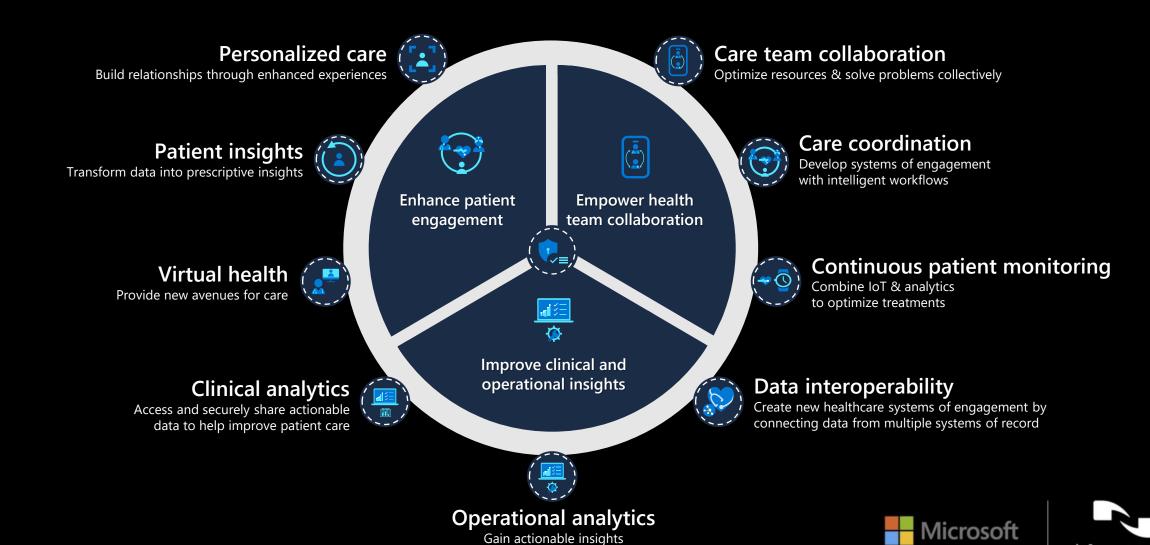




Accelerate scientific innovation



MICROSOFT CLOUD FOR HEALTHCARE

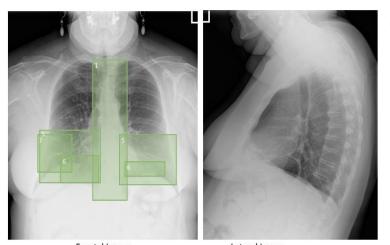


to optimize operations

MAIRA-2: The First Open Model for Grounded Radiology Report Generation!

MAIRA-2 incorporates additional contextual information, aligning the model's inputs with the comprehensive data that radiologists use daily. This includes integrating lateral views, prior frontal images, prior reports, and sections like Indication, Technique, and Comparison.

The model extends beyond generating reports by spatially grounding each described finding directly onto the image using annotations like bounding boxes, enhancing image comprehension and verification.



Frontal Image (flipped horizontally for display)

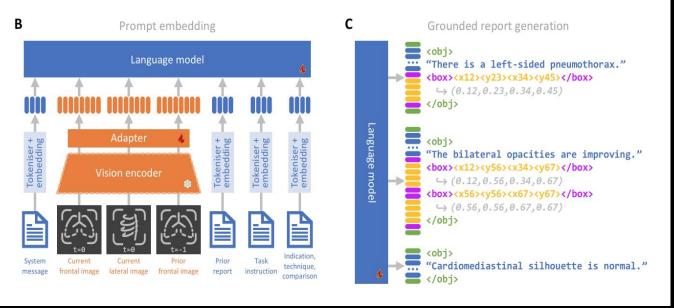
Indication: Cough and wheezing for 5 months.

Technique: PA and lateral views of the chest were obtained.

Comparison: None Prior Report: None

Findings:

- 1. Degenerative changes seen in the dorsal spine.
- 2. The lungs show no mass.
- The lungs show no effusion.
- Diaphragms are sharp.
- Prominent interstitial lung markings at lung bases more the right the left with some consolidation of markings.
- Atelectasis is noted.
- 7. Infiltrate in the right middle lobe laterally.
- 8. Cardiac size is normal.
- 9. There is no hilar adenopathy.
- 10. There is no mediastinal adenopathy.





Claims Management and Automation





1 90%

Data confidence using computer vision technologies on handwritten forms

Drug Discovery







Immune-system sequences processed within weeks, *not* 29 years

MIXED REALITY ON HEALTHCARE

FMUL Mixed Reality & Al

Focused on **Cardiovascular** and **Neurologic** diseases

Using AI for **precise diagnosis** and advanced data processing



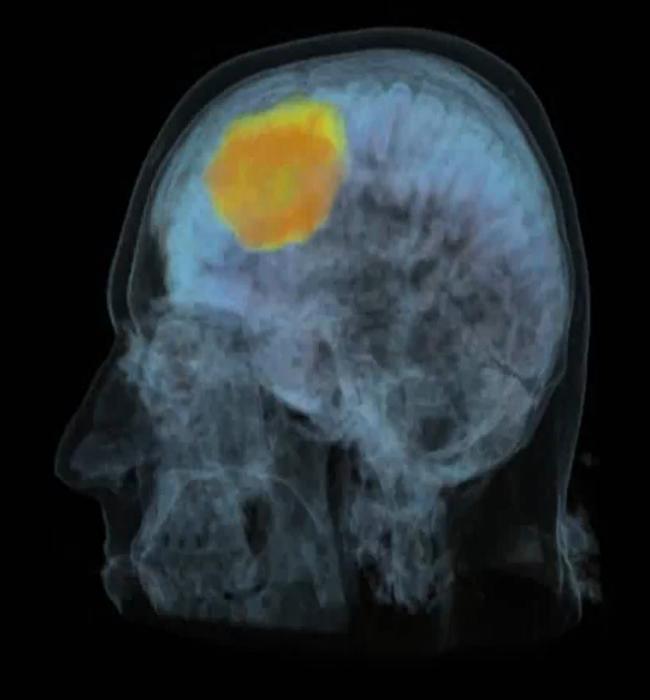


Project InnerEye Assistive AI for Cancer Treatment

Machine learning techniques for the **automatic delineation of tumors** as well as healthy anatomy in 3D radiological images. This enables:

- Extraction of targeted radiomics measurements for quantitative radiology
- Fast radiotherapy planning
- Precise surgery planning and navigation





Copilot for Doctors

Automated clinical reports: DocPort records consultations and generates reports, reducing administrative work.

Time-saving: Frees up 40% of healthcare professionals' time for patient care and research.

Adopted by ULSSM: Part of their strategy to streamline processes and reduce bureaucracy.

Broad application: Used in multiple specialties, following initial training sessions. Strategic alignment: Supports international best practices and addresses key priorities, per ULSSM leadership.



INSTITUCIONAL UTENTES ESPECIALIDADES SERVIÇOS DE APOIO PROFISSIONAIS COMUNICAÇÃO CONTACTOS RECRUTAMENTO

Ferramenta de inteligência artificial apoia trabalho das equipas da ULS Santa Maria

Novembro 20, 2024





Portuguese Order of **Psychologists**

Virtual assistant for the Portuguese Order of Psychologists, which aims to facilitate the clinical practice of more than 27,000 Psychologists.

XIII CONGRESSO BERO-AMERICANO **DE PSICOLOGIA** 6º CONGRESSO DA ORDEM DOS PSICÓLOGOS PORTUGUESES

Delegações Regionais /

NORTE

CENTRO

MADEIRA

ACORES

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |



Ordem dos Psicólogos assina protocolo com o Governo que permite 100 mil consultas a estudantes do Ensino Superior

04.setembro.2024

O Bastonário da Ordem dos Psicólogos Portugueses, Francisco Miranda Rodrigues, assinou esta quarta-feira, 4 de setembro, um protocolo com o governo para a atribuição de Cheques-Psicólogo a estudantes do Ensino Superior. Um protocolo que permite que sejam disponibilizadas 100 mil consultas de psicologia a estes



Arquivo de Notícias

A Ordem nos Média

Delegação Regional Açores Delegação Regional Centro Delegação Regional Madeira Delegação Regional Norte Delegação Regional Sul

Anual

Escolha um ano

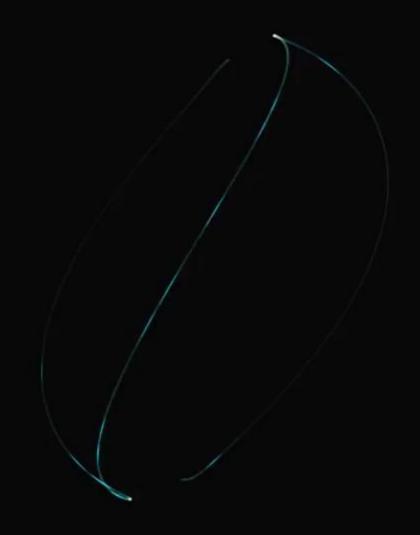
Últimas notícias

Tempos de respostas 23.setembro.2024

Ler Mais

Fraude em nome da **EFPA**

Exame Informática | Psicólogos portugueses ganham um assistente virtual com IA (visao.pt)



"The only way to discover the limits of the possible is to go beyond them into the impossible"

Arthur C. Clarke, Author