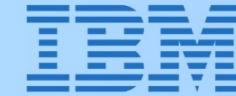




71 S. Wacker Dr
Chicago, IL 60606
6th Floor Room 6609

Agenda da visita em 22 de Julho de 2024



8:30 Chegada na recepção do prédio para check-in.

9:10 Abertura IBM Brazil - *Alan Braz*
Lead Research Developer watsonx platform



9:20 Opening: “**Where is AI going?**
The perspective of the AI Alliance”
Dean Wampler - IBM's Chief Technical
Representative to the AI Alliance



10:00 AI intro e recap, *Alan Braz*

10:30 intervalo

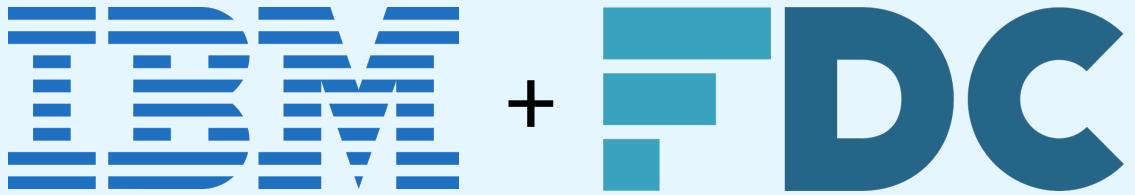
11:00 watsonx and GenAI workshop, *Alan Braz*



12:00 Innovation at Asset Portfolio Strategy for the
IBM Watson and Cloud Platform -
Ron Majumdar - Architect, Emerging Technology;
Lead, Chicago Center for Advanced Studies

13:00 Encerramento. *Hugo Tadeu & Alan Braz*.

Retrospectiva encontros 23/24



Novembro/23

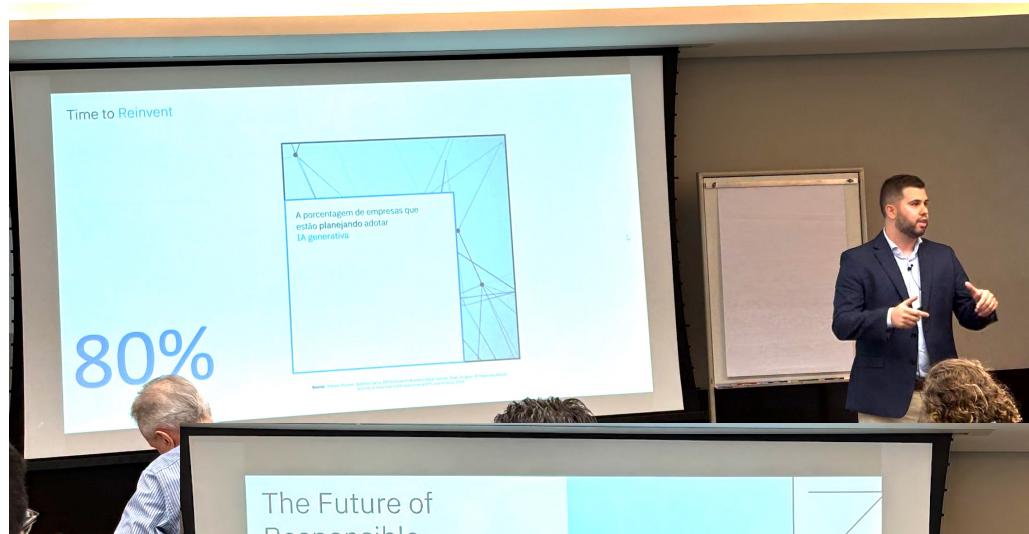
IA para Negócios

IA Responsável

Demo watsonx.ai

Demo Orchestrate

Painel Client Eng.



Fevereiro/24

IBM Technology

Governança

AI Alliance

IBM Research

Painel case: Sicredi



Abril/24

Cases Esportes

Implementação de IA

Quantum Comp.

Hand's on wx chat
<https://ibm.biz/wx-chat-demo>

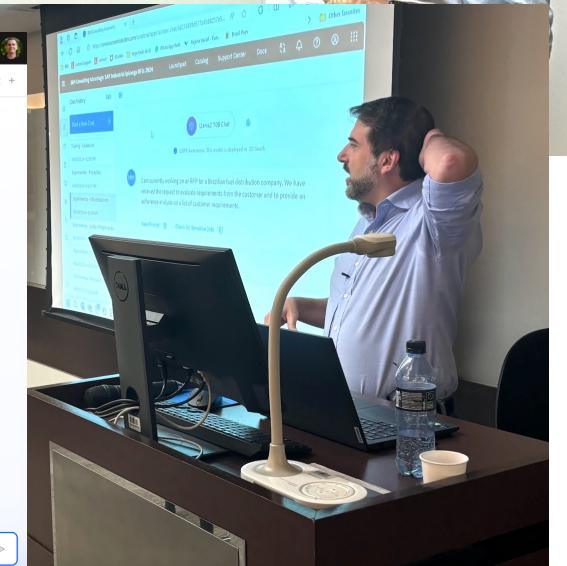
Case SAP



A screenshot of the IBM WatsonX.ai demo interface. At the top, it says "IBM watsonx.ai demo" with a trial days left indicator (30) and a "Try watsonx.ai for free" button. Below that is a message from the AI: "Hello! Are you ready to chat? You chat with the single large language model. This demo does not include agents, simultaneous chat with multiple models, multi-modal models, or other functionality to enhance results. Models might not have knowledge of recent events." There is a small diagram of a neural network with colored nodes (blue, purple, pink, yellow) and connecting lines. At the bottom, there is a "Quick start samples" section with four options: "Describe generative AI with emojis.", "Write a Python function, which generates a sequence of prime numbers.", "Create a chart of the top NLP use-cases for foundation models.", and "How can generative AI help my enterprise business?". A text input field at the bottom says "Type something...".

IBM Quantum Computing

Wagner Arnaut (TUBA)
IBM Distinguished Engineer
CTO IBM Technology Brasil
IBM Quantum Ambassador
warnaut@br.ibm.com



Junho/24

Tonny Martins
Presidente IBM LA

Caso Equatorial Energia

Digital Worker

Meta – Llama3



Meta

The collage consists of five images:

- Top Left:** A man in a suit speaking into a microphone at a podium, with a presentation slide visible behind him.
- Top Right:** A large presentation slide titled "AI First" showing various AI applications like Quantum Computing, Hyperautomation, Robotics, and Cybersecurity.
- Middle Left:** A presentation slide for "Llama e Jio Copilot" featuring a cartoon llama sitting at a desk with a computer monitor displaying code.
- Middle Right:** A man in a floral shirt speaking into a microphone.
- Bottom Right:** Two men standing in front of a large screen displaying a diagram titled "Anatomia do DW" (Architecture of the DW).

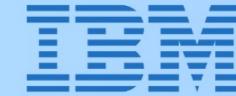


IBM + FDC



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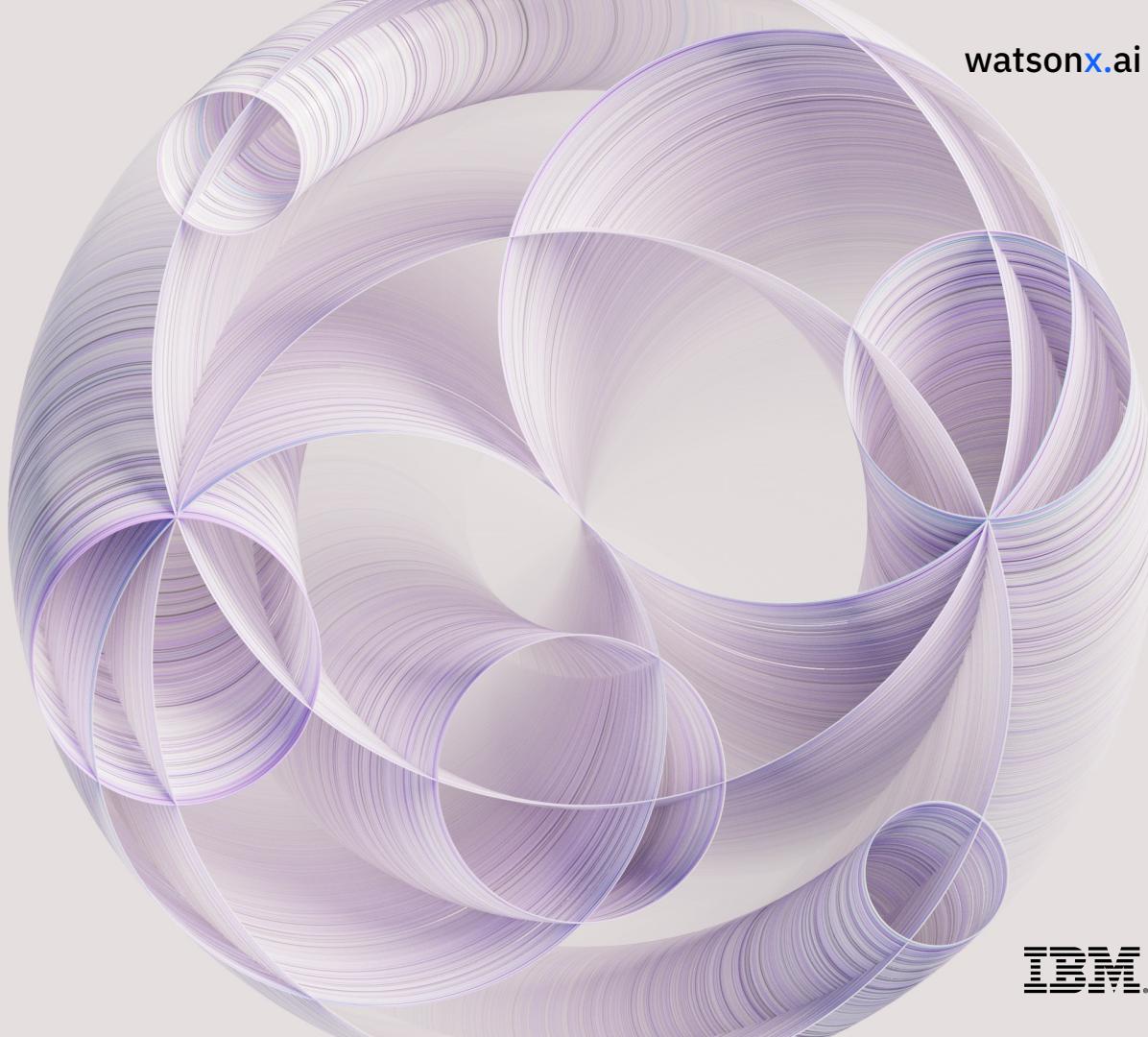
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IA Generativa e watsonx

watsonx.ai

Alan Braz
Lead Research Developer
IBM Research
<http://alanbraz.com.br/stc.pdf>



IBM

IA Generativa já é realidade?!

Write a poem about Xbox

Xbox, oh Xbox, you're my favorite toy
A source of endless fun, a faithful joy
From Halo to Gears, you have it all
A gaming paradise, standing tall

With your sleek design, and wireless controller

You're the envy of all, a true gamer's

GITHUB COPILOT: CHAT

monalisa Write unit tests for this function

GitHub Copilot

```
import unittest
import datetime

class TestParseExpenses(unittest.TestCase):
    def test_parse_expenses_with_valid_input(self):
        expenses_string = "2023-01-02 -34.01 USD\n2023-01-03 2.59 DKK\n2023-01-03 -2.72 EUR"
        expenses = []
        for line in expenses_string.split("\n"):
            if line.startswith("#"):
                continue
            date, value, currency = line.split(" ")
            expenses.append((datetime.datetime.strptime(date, "%Y-%m-%d"), float(value), currency))
        return expenses
```

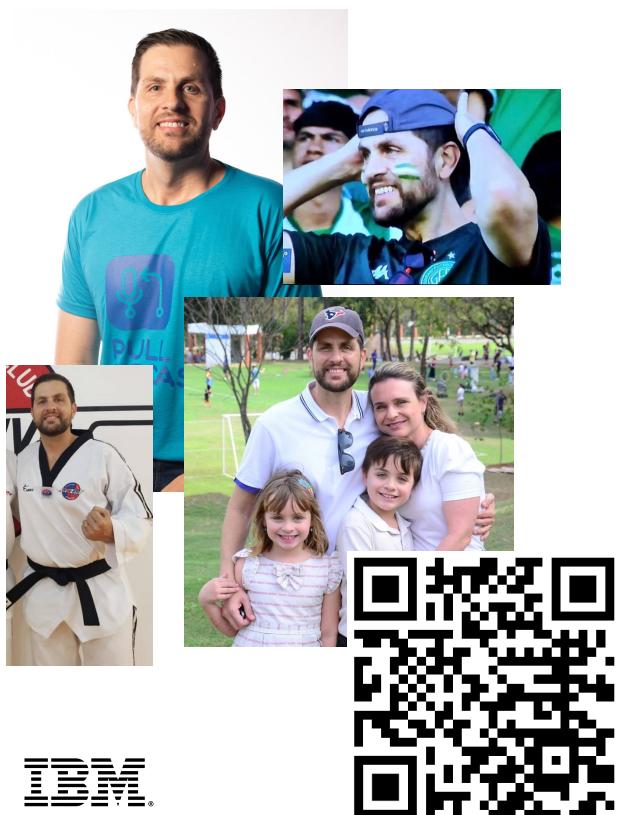


<https://youtube.com/watch?v=CZSGIeRmYn8>

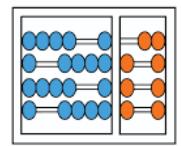
https://www.youtube.com/watch?v=7NK_J0kuSVY

<https://www.youtube.com/watch?v=Ub-b5XNEF78>

Alan Braz



Lead Research Developer/Software Engineer



Instituto de
Computação
UNIVERSIDADE ESTADUAL DE CAMPINAS



pullrecast.dev
alanbraz.com.br
ibm.biz/watsonx-br



TECH...
NIGHTS



FDC



CAIPIRA
ÁGIL



pullrecast.dev

@pullrecast

Ainda existe carreira relevante na era da IA generativa? – Pull reCast

**Mas afinal,
o que é IA generativa?**

O boom de popularidade começou com
OpenAI e ChatGPT!

NOVOS EPISÓDIOS SEGUNDAS ÀS 11:33 INSCREVA-SE NO CANAL [PULLRECAST.DEV](https://pullrecast.dev)

12:48 / 1:13:46

Pull reCast - Desenvolvendo sua Eminência Técnica
1.07K subscribers

Subscribed

19 Share Download Clip Save

Ainda existe carreira relevante na era da IA generativa? – Pull reCast

Impactos do ChatGPT e IA generativa nos negócios e na vida

Impactos do ChatGPT e IA generativa no recrutamento e seleção

Impactos do ChatGPT e IA generativa na arquitetura de soluções

Impactos do ChatGPT e IA generativa em projetos open-source

Impactos do ChatGPT e IA generativa no design de experiências

Impactos do ChatGPT e IA generativa na documentação técnica

Impactos do ChatGPT e IA generativa na segurança da informação

Ainda existe carreira relevante na era da IA generativa?

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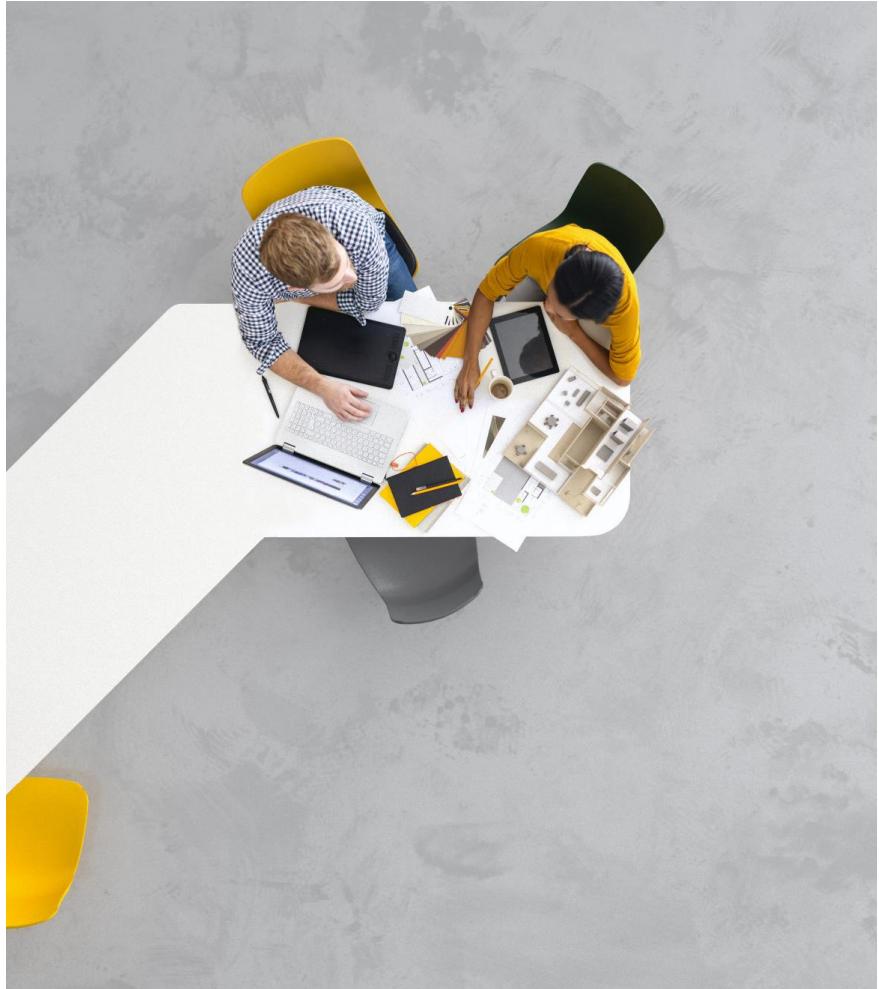
Impactos do ChatGPT e IA generativa na documentação técnica

Impactos do ChatGPT e IA generativa na segurança da informação

Ainda existe carreira relevante na era da IA generativa?

- 1 IMPACTOS DO CHATGPT E IA GENERATIVA NOS NEGÓCIOS E NA VIDA 6:50 Pull reCast - Desenvolvendo sua Eminência Técnica
- 2 IMPACTOS DO CHATGPT E IA GENERATIVA NO RECRUTAMENTO E SELEÇÃO 4:01 Pull reCast - Desenvolvendo sua Eminência Técnica
- 3 IMPACTOS DO CHATGPT E IA GENERATIVA NA ARQUITETURA DE SOLUÇÕES 4:37 Pull reCast - Desenvolvendo sua Eminência Técnica
- 4 IMPACTOS DO CHATGPT E IA GENERATIVA EM PROJETOS OPEN-SOURCE 1:42 Pull reCast - Desenvolvendo sua Eminência Técnica
- 5 IMPACTOS DO CHATGPT E IA GENERATIVA NO DESIGN DE EXPERIÊNCIAS 3:40 Pull reCast - Desenvolvendo sua Eminência Técnica
- 6 IMPACTOS DO CHATGPT E IA GENERATIVA NA DOCUMENTAÇÃO TÉCNICA 20:24 Pull reCast - Desenvolvendo sua Eminência Técnica
- 7 IMPACTOS DO CHATGPT E IA GENERATIVA NA DOCUMENTAÇÃO TÉCNICA 8:01 Pull reCast - Desenvolvendo sua Eminência Técnica
- 8 IMPACTOS DO CHATGPT E IA GENERATIVA NA SEGURANÇA DA INFORMAÇÃO 3:03 Pull reCast - Desenvolvendo sua Eminência Técnica
- 9 AINDA EXISTE CARREIRA RELEVANTE NA ERA DA IA GENERATIVA? 1:13:47 Pull reCast - Desenvolvendo sua Eminência Técnica

Introdução à IA



What is AI?

AI refers to the ability of computer systems to attempt to mimic the problem-solving and decision-making capabilities of the human mind.



Computer vision



Data science

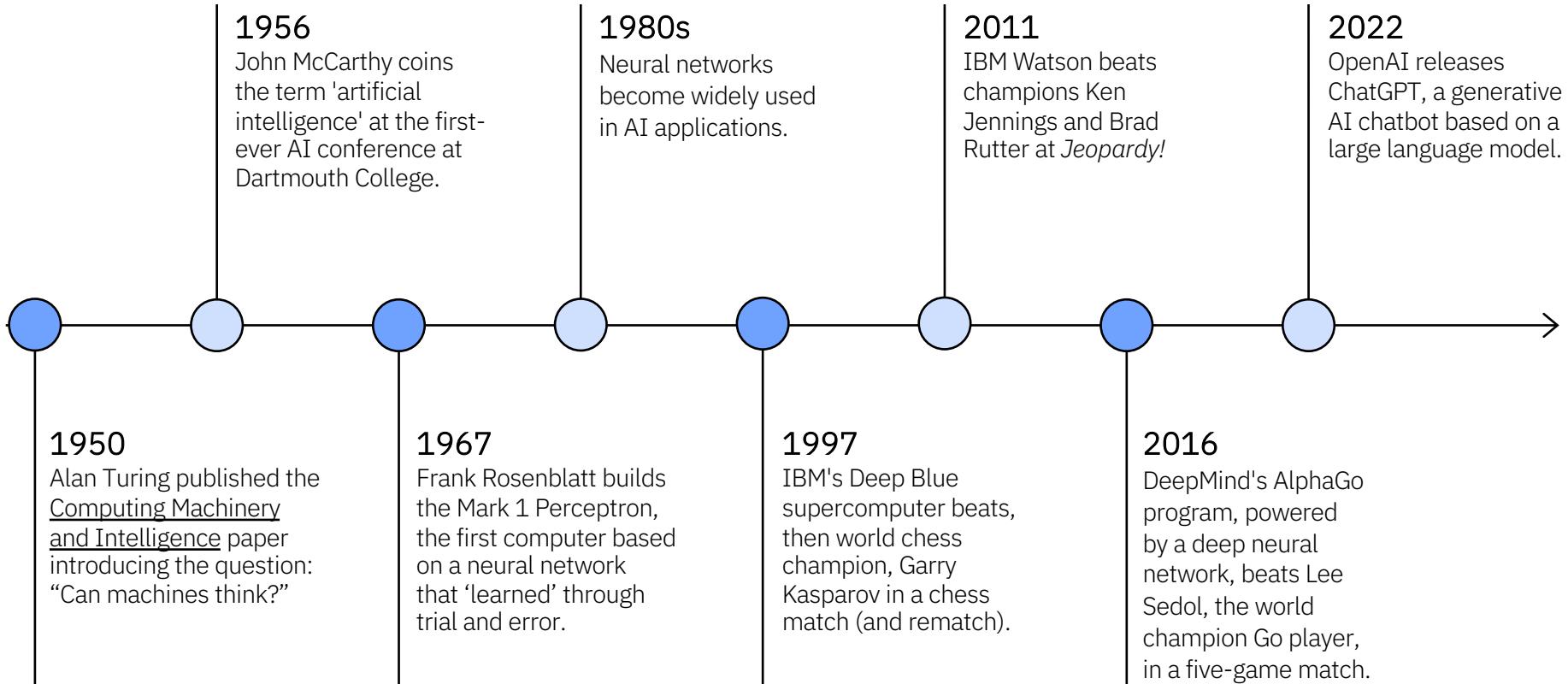


Natural
language
processing
(NLP)



Robotics

AI milestones



Deep Blue 1997



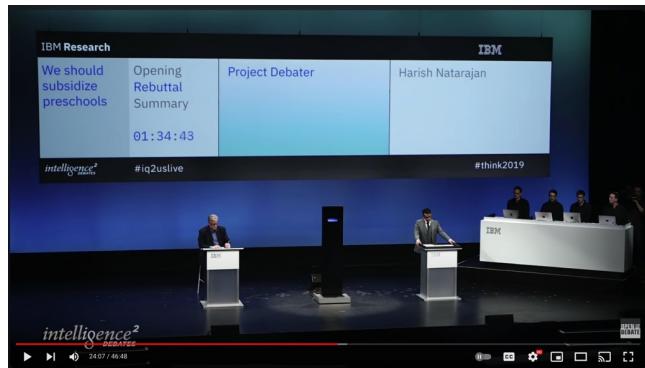
Ei! 2013/2014



Watson 2011



Project Debater 2019



<https://research.ibm.com/interactive/project-debater/film/>
https://youtube.com/watch?v=3_yy0dnIc58

Análise de sentimento durante a Copa usando Big Data

Apresentação gravada no TDC 2014

IBM lança o primeiro projeto de análise de sentimentos em português para grande volume de dados

Artificial Intelligence (AI)

Human intelligence exhibited by machines



AI can be defined as a technique that enables machines to mimic cognitive functions associated with human minds – cognitive functions include all aspects of learning, reasoning, perceiving, and problem solving.

Machine Learning (ML)

Systems that learn from historical data



ML-based systems are trained on historical data to uncover patterns. Users provide inputs to the ML system, which then applies these inputs to the discovered patterns and generates corresponding outputs.

Deep Learning (DL)

ML technique that mimics human brain function



DL is a subset of ML, using multiple layers of neural networks, which are interconnected nodes, which work together to process information. DL is well suited to complex applications, like image and speech recognition.

Foundation Model

Generative AI systems



AI model built using a specific kind of neural network architecture, called a transformer, which is designed to generate sequences of related data elements (for example, like a sentence).

1950's

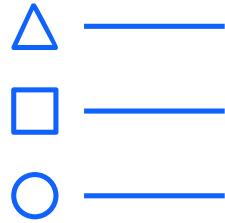
1980's

2010's

2020's



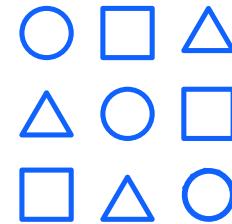
Rules-based systems



*programmed with a series
of [instructions](#) & logical rules*

for example: “a triangle has three sides”

Machine learning systems

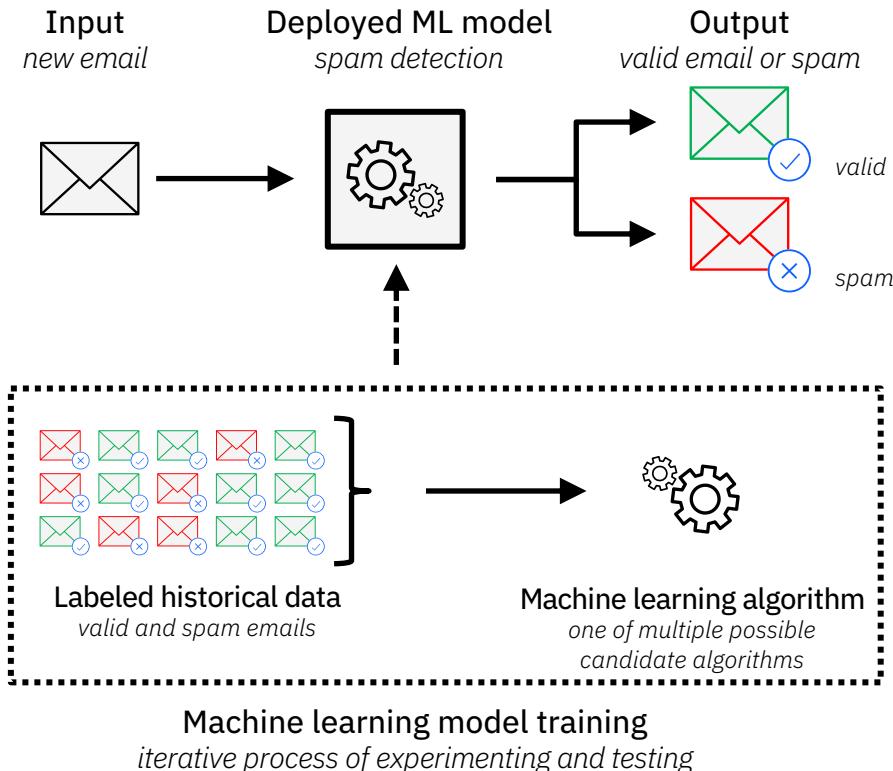


*trained with a
series of [examples](#)*

*for example: “here are
pictures of many triangles”*

What is a machine learning (ML) model?

Example: Spam detection for email



Machine learning (ML) types

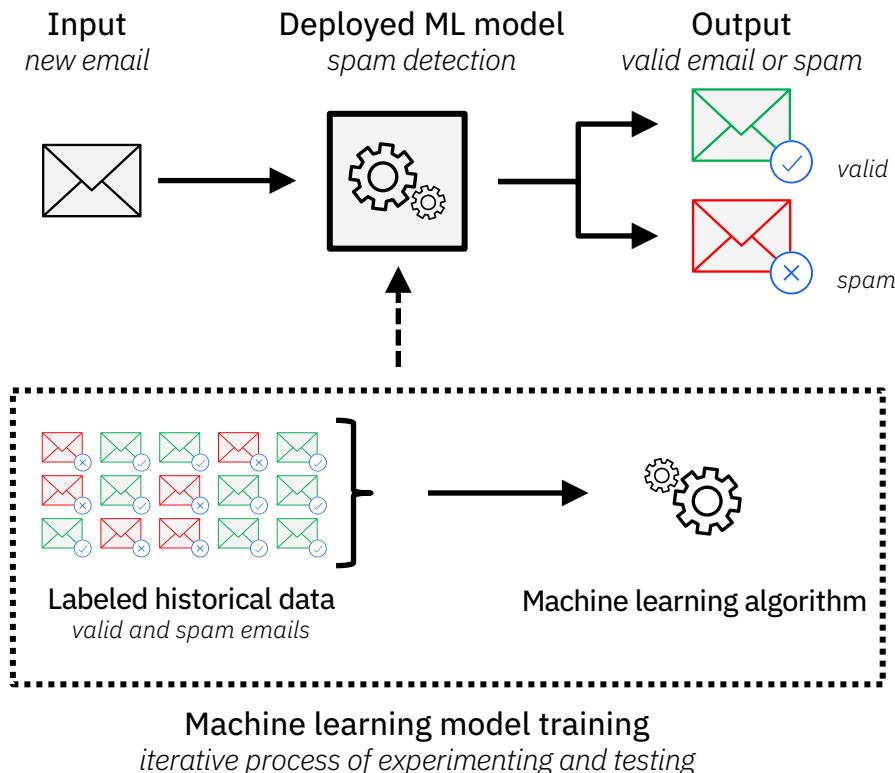
Classification models

Classification models assign labels to model inputs or assign them to specific categories.

Common use cases include:

- Fraud detection: predict whether a transaction is fraudulent based on patterns in the data
- Sentiment analysis: classify text as positive, negative, or neutral
- Medical diagnosis: assign a disease label to a patient's case, based on symptoms and medical history
- Image recognition: recognize objects or identify people based on visible features and characteristics

Example: Spam detection for email



Machine learning (ML) types

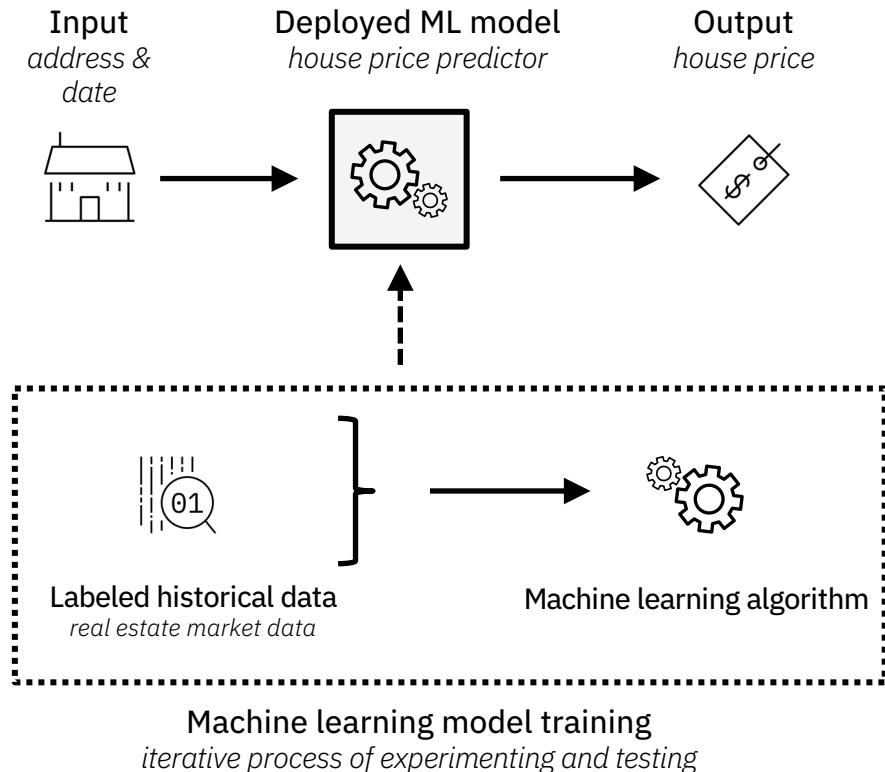
Regression models

Regression models make predictions based on the model input.

Common use cases include:

- Stock market analysis: securities price prediction based on historical data or news events
- Sales: forecasting based on historical data or market trends
- Healthcare: predict patient outcomes based on factors such as age, gender, medical history, or treatment plans
- Customer behavior analysis: predict future customer purchasing patterns based on demographic data, past purchase history, and advertising campaigns

Example: House price prediction



Machine learning (ML) types

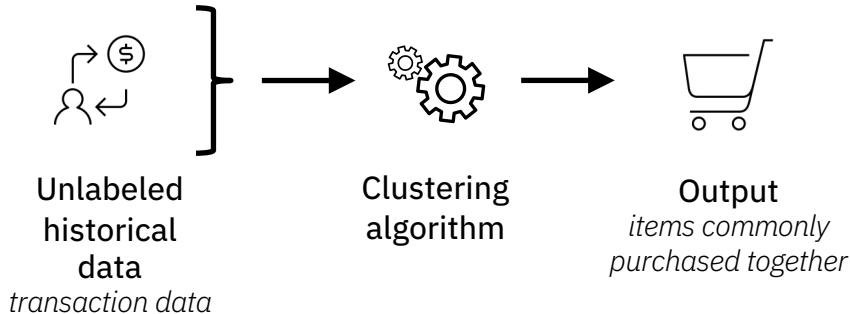
Clustering models

Clustering models identifies distinct groupings of individual data points that share common characteristics within a larger data set.

Common use cases include:

- Customer segmentation: group customers based on similar preference, behaviors, and demographics
- Genetic analysis: group genes with similar functions or processes
- Social network analysis: identify communities or groups within a social network
- Market basket analysis: identify items that are commonly purchased together

Example: Market basket analysis



Machine learning (ML) types

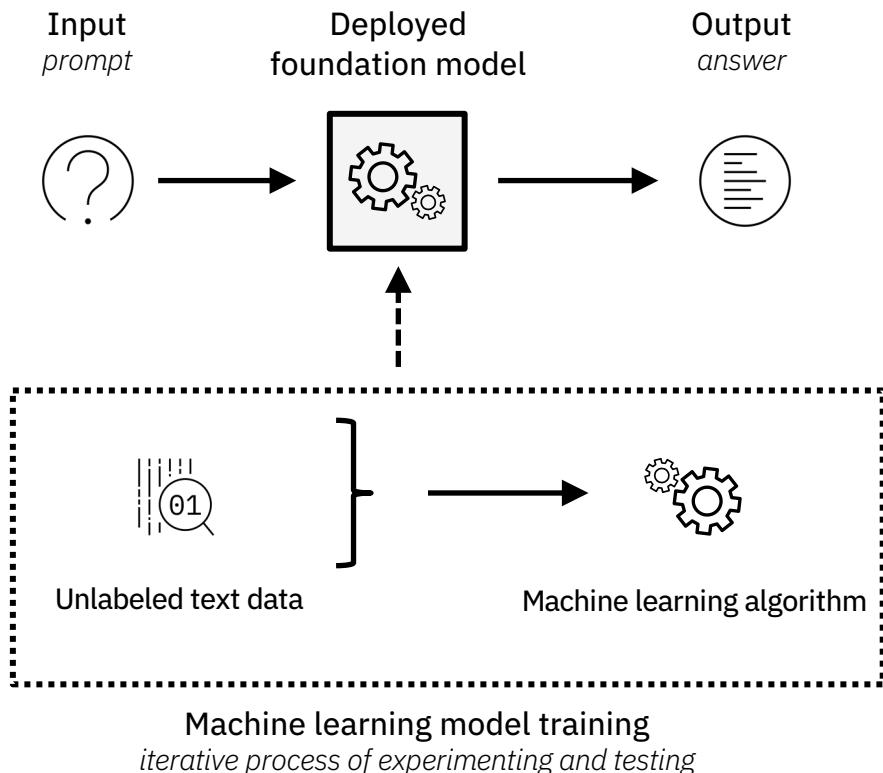
Generative models

Generative models create new data in response to input requests (prompts).

Common use cases include:

- Text generation: generate new text in response to a prompt, summarizing text, or writing a lengthy essay
- Code generation: generate computer code based on a textual description of the proposed program
- Image generation: create images based on the prompt

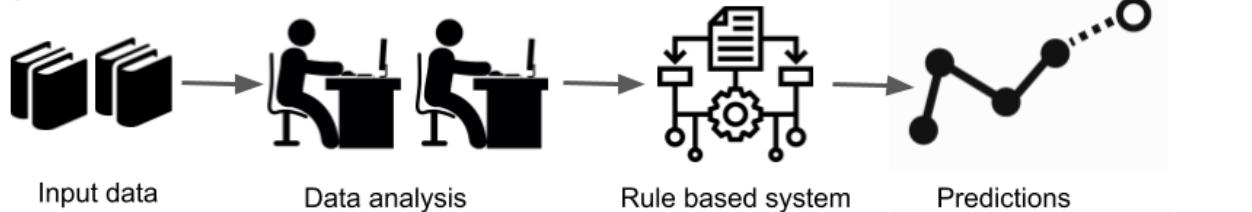
Example: Text generation



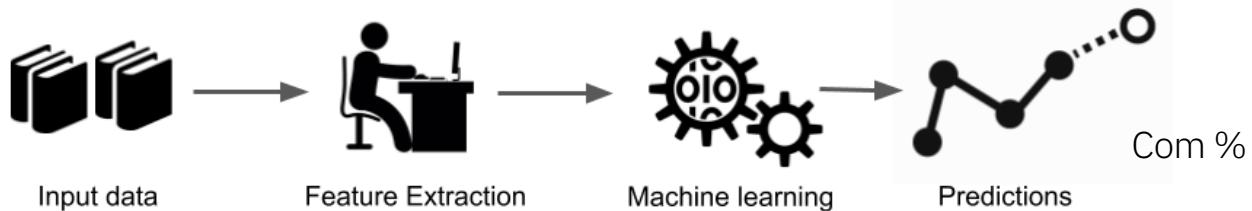


Paradigmas

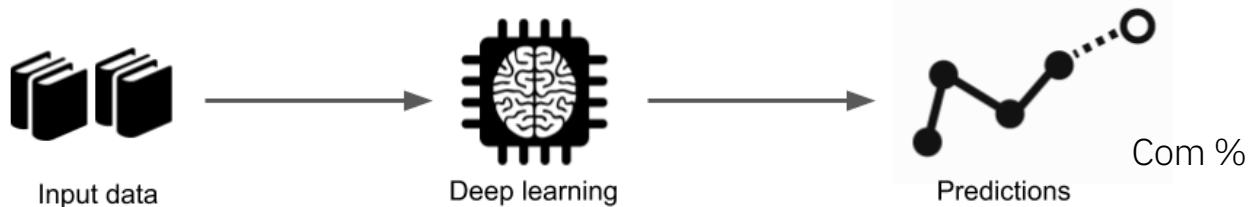
Poucos e
normalmente estruturados



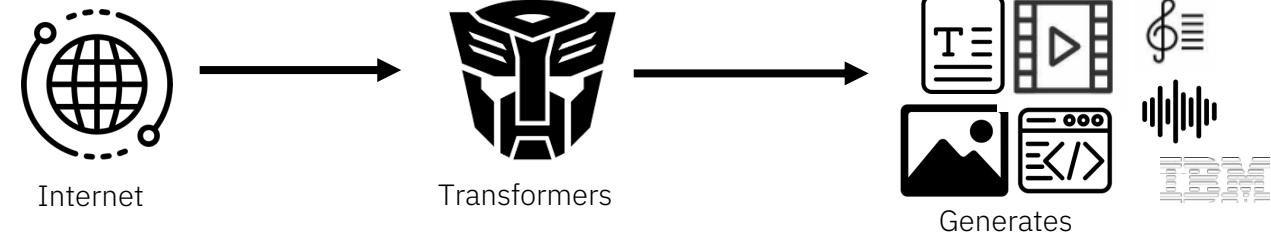
Milhares,
Estruturados ou não
Anotados!



Milhões
Estruturados ou não
Não anotados!



Bilhões/Trilhões
Não Estruturados
Não anotados!



Large language models (LLMs)

LLMs are machine learning models that have been trained on large quantities of unlabeled text using self-supervised learning and can perform a variety of natural language processing tasks .

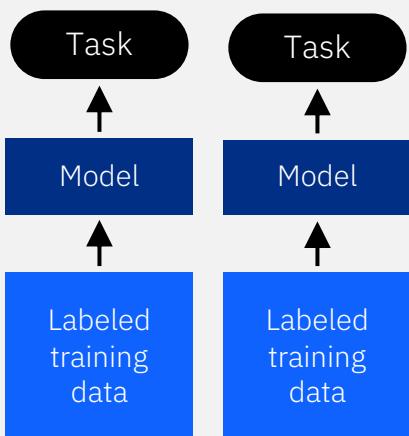
ChatGPT is an example of a generative AI chatbot developed using an LLM.



What's next with foundation models:

Conventional AI

1000s – 100000s labeled data points / task



Zero-shot prompting

No labeled data needed

Task



Few-shot prompting

1-10 labeled data points / task

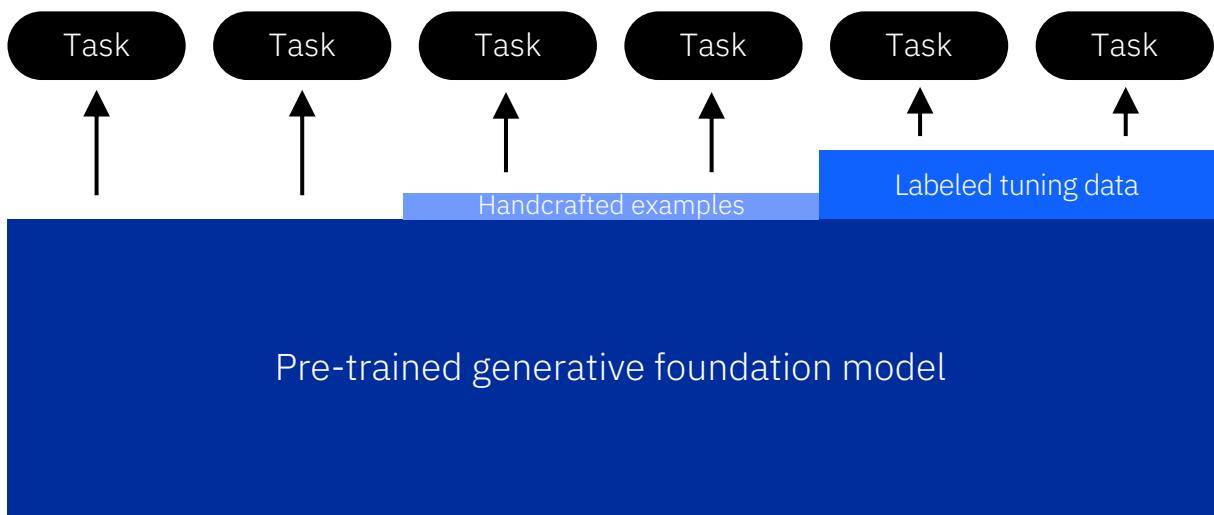
Task



Prompt-tuning

100s – 1000s labeled data points / task

Task

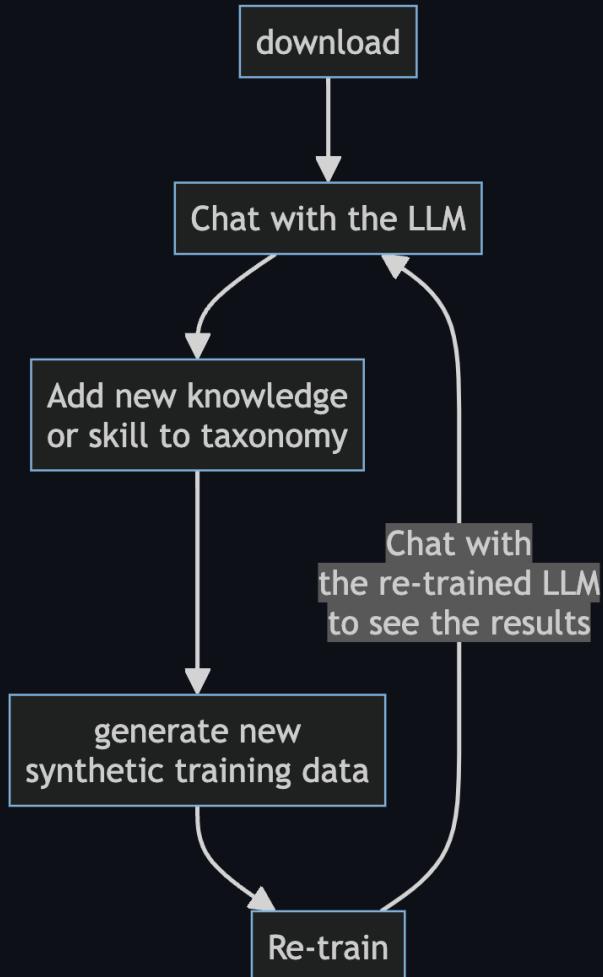


InstructLab

Add skills and knowledge
and re-train in a open-source way



<https://instructlab.ai/>



Inteligência Artificial (IA)

Inteligência humana simulada por máquinas

IA pode ser definida como uma técnica que permite que as máquinas imitem as funções cognitivas associadas às mentes humanas - as funções cognitivas incluem todos os aspectos da aprendizagem, raciocínio, percepção e resolução de problemas.

1950

Alan Turing publicou o artigo Computing Machinery and Intelligence introduzindo a pergunta: "Máquinas podem pensar?"

1956

John McCarthy cunhou o termo 'inteligência artificial' na primeira conferência de IA no Dartmouth College.

Machine Learning (ML)

Sistemas que aprendem com dados históricos

Aprendizado supervisionado

1Ks a 1Ms de exemplos de dados rotulados

Cada tarefa um modelo

Classificação, Regressão, Árvores de decisão

"Aprendizado de Máquina": Os sistemas baseados em ML são treinados em dados históricos para descobrir padrões. Os usuários fornecem entradas para o sistema ML, que aplica essas entradas aos padrões descobertos e gera as saídas correspondentes.

Deep Learning (DL)

Técnica de ML que imita a função do cérebro humano

Aprendizado semi- ou não-supervisionado

1Ms de exemplos de dados rotulados e não rotulados

Imagens e sons

"Aprendizado Profundo": DL é um subconjunto de ML, usando várias camadas de redes neurais, que são nós interconectados, que trabalham juntos para processar informações. DL é adequado para aplicativos complexos, como reconhecimento de imagem e fala.

Foundation Model

Sistemas de IA generativos

Aprendizado não supervisionado
Bilhões de dados não rotulados
Grandes modelos de linguagem LLM
Modelo "base" pré-treinado de forma genérica
GPT-3: 1024 GPUs, 34 dias, \$4.6M

Modelo de IA construído usando um tipo específico de arquitetura de rede neural, chamado Transformer, projetado para gerar sequências de elementos de dados relacionados (por exemplo, como uma frase).

Fine-tuning:

Zero-shot prompting: No labeled data

Few-shot prompting: 1-10 labeled data

Data-driven tuning: 100s – 1000s labeled

1950's

1980's

2010's

2020's

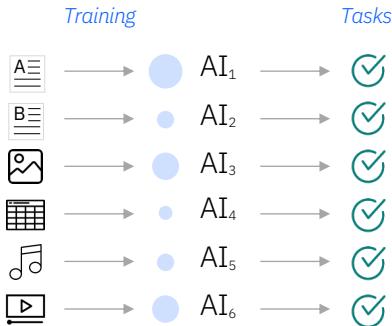
<https://pullrecast.dev/images/resumo-ia.png>

The impact of generative AI |

The opportunity

Foundation models establish a new paradigm for AI capabilities

Traditional AI models



- Individual siloed models
- Require task specific training
- Lots of human supervised training

Foundation models

External data



+ Enterprise
proprietary data

Pre-trained

Massive
foundation
model

+ Enterprise
proprietary data

Fine-tuned
model

Prompting

- ✓ Q&A
- ✓ Translation
- ✓ Sentiment analysis

- ✓ Code generation
- ✓ ...
- ✓ ...

- Massive multi-tasking model
- Adaptable with minimized training
- Pre-trained unsupervised learning

Enhanced capabilities

- Summarization
- Conversational knowledge
- Content creation
- Code co-creation

Key advantages

- Lower upfront costs through less labeling
- Faster deployment through fine tuning
- Equal or better accuracy for multiple use cases
- Incremental revenue through better performance

up to **70% reduction**
in certain NLP tasks

What IBM offers

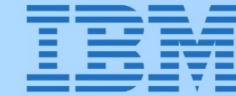
IBM's generative AI technology and expertise

AI assistants 	Empower individuals to do work without expert knowledge across a variety of business processes and applications.	watsonx Code Assistant watsonx Assistant watsonx Orchestrate watsonx Orders	Consulting Generative AI strategy, experience, technology, operations
SDKs & APIs 	Embed watsonx platform in third party assistants and applications using programmatic interfaces.	Ecosystem integrations	
AI & data platform 	Leverage generative AI and machine learning — tuned with your data — with responsibility, transparency and explainability.	watsonx watsonx.ai watsonx.governance watsonx.data Foundation models Granite IBM Open Source Hugging Face Llama 2 Meta Geospatial IBM + NASA ...	
Data services 	Define, organize, manage, and deliver trusted data to train and tune AI models with data fabric services.	Cloud Pak for Data watsonx Discovery	Ecosystem System Integrators, Software and SaaS partners, Public Cloud providers
Hybrid cloud AI tools 	Build on a consistent, scalable, foundation based on open-source technology.	Red Hat OpenShift AI (e.g., Ray, Pytorch)	



71 S. Wacker Dr
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Agenda da visita em 22 de Julho de 2024



8:30 Chegada na recepção do prédio para check-in.

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Lead Research Developer watsonx platform



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Ron Majumdar - Architect, Emerging Technology;
Lead, Chicago Center for Advanced Studies

13:00 Encerramento. *Hugo Tadeu & Alan Braz*.

What IBM offers

Introducing...

watsonx

ibm.com/br-pt/products/watsonx-ai

Put AI to work with **watsonx**.

Put AI to work with **watsonx**

Scale and accelerate the impact of AI across your business.

The key to your success is in the core of your business—the essential activities and capabilities that are fundamental to who you are and who you serve. Watsonx infuses your core business operations with intelligence—it's an AI and data platform to leverage foundation models for generative AI and machine learning with AI assistants that make you and your employees more responsive, productive, and resilient. Create real business value with trust, speed, and confidence with watsonx.

watsonx AI and data platform

Leverage foundation models for generative AI and machine learning—tuned with your data wherever it resides, with responsibility, transparency and explainability.

watsonx Orchestrate

watsonx Assistant

watsonx Code Assistant

Empower individuals in your organization to do work without expert knowledge across a variety of business processes and applications, including automating customer service, generating code, and automating key workflows in departments such as human resources (HR).

What IBM offers

The platform
for AI and data

watsonx

watsonx.ai

Train, validate, tune,
and deploy AI models

A next generation enterprise studio for AI builders to train, validate, tune, and deploy both traditional machine learning and new generative AI capabilities powered by foundation models. It enables you to build AI applications in a fraction of the time with a fraction of the data.

watsonx.data

Scale AI workloads, for all your data, anywhere

Fit-for-purpose data store, built on an open lakehouse architecture, supported by querying, governance and open data formats to access and share data.

watsonx.governance

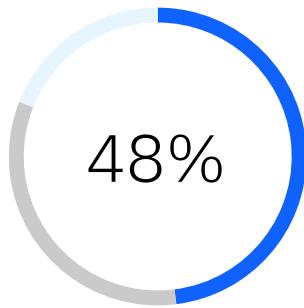
Accelerate responsible, transparent, and explainable AI workflows

End-to-end toolkit for AI governance across the entire model lifecycle to enable responsible, transparent, and explainable AI workflows.

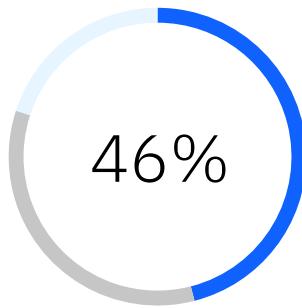
Generative AI adoption considerations, inhibitors and fears

80% of business leaders see at least one of these ethical issues as a major concern

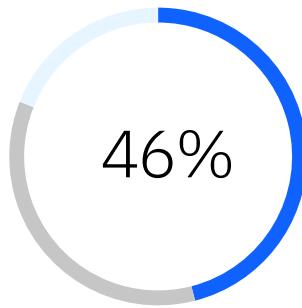
Explainability



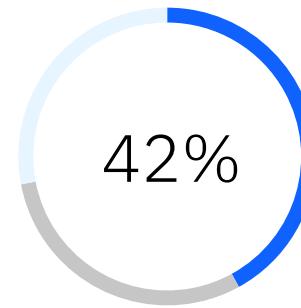
Ethics



Bias



Trust



Believe decisions made by generative AI are not sufficiently **explainable**.

Concerned about the safety and **ethical** aspects of generative AI.

Believe that generative AI will propagate established **biases**.

Believe generative AI cannot be **trusted**.

■ Agree ■ Neutral ■ Disagree

Enterprises need more than an AI solution - they need a comprehensive and sound strategy for generative AI.

IBM POV: Four core principles to tailor generative AI for enterprise

Open

- Based on the best AI and cloud technologies available
- Giving access to the innovation of the open community and multiple models

Targeted

- Designed for targeted business use cases, that unlock new value
- Including curated models that can be tuned to proprietary data and company guidelines

Trusted

- Built with AI and data governance, transparency, and ethics that support increasing regulatory compliance demands
- Providing guidance on appropriate models to leverage to create real business value with trust

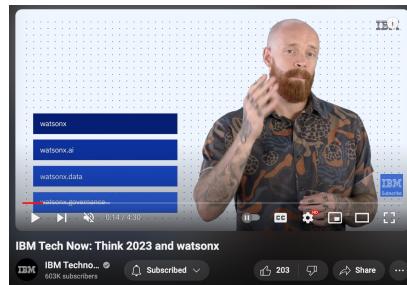
Empowering

- On a platform to bring your own data and AI models that you tune, train, deploy, and govern
- Running anywhere, designed for scale and widespread adoption to truly create enterprise value

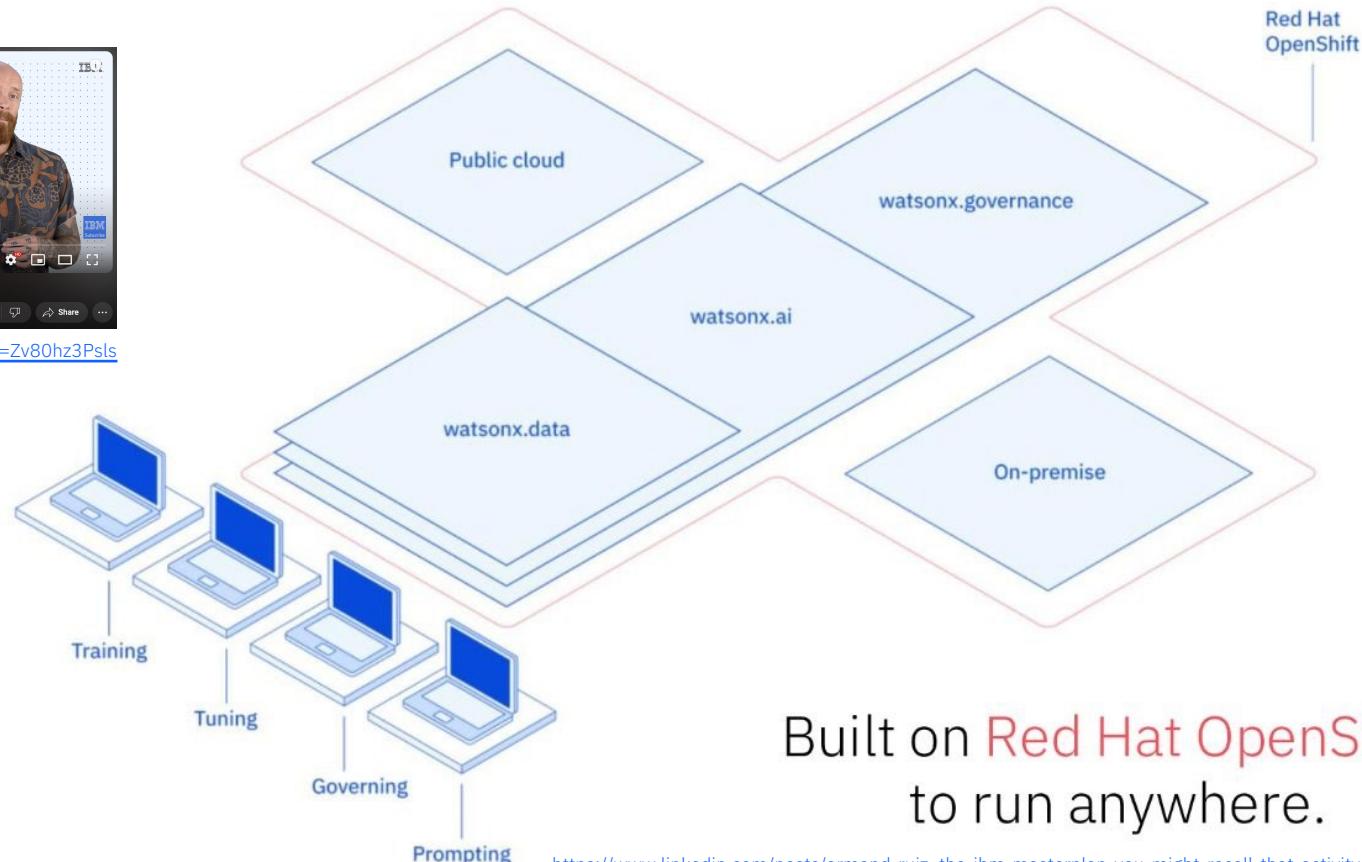
How to scale AI across
the business

ibm.com/br-pt/watsonx

Putting AI to work on Hybrid Cloud

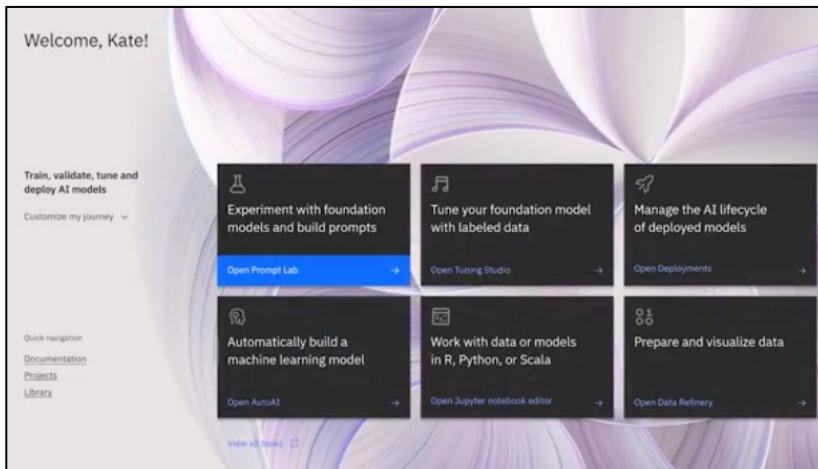


<https://www.youtube.com/watch?v=Zv80hz3PsIs>



watsonx.ai

Train, validate, tune, and deploy AI models



A next generation enterprise studio for AI builders to train, validate, tune, and deploy generative AI, foundation models, and machine learning capabilities.

The watsonx.ai components include:

- **Foundation Model Library** with IBM and open-source models
- **Prompt Lab** to experiment with foundation models and build prompts for various use cases and tasks
- **Tuning Studio** to tune your foundation models with labeled data
- **Data Science and MLOps** to build machine learning models automatically with model training, development, and visual modeling

watsonx.ai: Prompt Lab

Experiment with foundation models and build prompts

Interactive prompt builder

Includes prompt examples for various use cases and tasks

Experiment with different prompts, save and reuse older prompts, use different models and vary different parameters

Experiment with zero-shot, one-shot, or few-shot prompting to get the best results

Experiment with prompt engineering

Choice of foundation models to use based on task requirements

Prevent the model from generating repeating phrases

Number of min and max new tokens in the response

Stop sequences – specifies sequences whose appearances should stop the model

The screenshot shows the IBM WatsonX Prompt Lab interface. At the top, there's a navigation bar with 'IBM watsonx', a search bar, and various account and location options. The main area is titled 'Prompt Lab' and shows a workspace named 'New (unsaved)'. On the left, a sidebar titled 'Sample prompts' lists several options: 'Summarization', 'Earnings call summary' (selected), 'Meeting transcript summary' (highlighted in blue), 'Scenario classification', 'Sentiment classification', 'Marketing email generation', 'Thank you note generation', 'Named entity extraction', 'Fact extraction', and 'Question answering'. The main content area has tabs for 'Structured' and 'Freeform'. Under 'Set up', there's an 'Instruction (optional)' field with the placeholder 'Write a short summary for the meeting transcripts.' and an 'Examples (optional)' section with a table. The table has two columns: 'Transcript' and 'Summary'. It contains two rows of data. The first row is for 'Meeting transcript summary' and the second for 'Scenario classification'. At the bottom, there's a 'Try' section with a 'Test your prompt' input field, a table for 'Fact extraction' with a single entry '1' and summary 'John Doe 00:00:01.415 --> 00:00:20.675', and a 'Generate' button.

What IBM offers

watsonx.ai: Models available

granite.13b 13 billion params decoder only	flan-ul2-20b 20 billion params encoder/decoder	gpt-neox-20b 20 billion params decoder only	mt0-xxl-13b 13 billion params encoder/decoder	flan-t5-xxl-11b 11 billion params encoder/decoder	mpt-instruct2-7b 7 billion params decoder only	llama2 70 billion params decoder only	starcoder 15.5 billion params decoder only
Q&A	Q&A	Q&A	Q&A	Q&A	Q&A	Q&A	CodeGen
Generate	Generate	Generate	Generate	Generate	Generate	Generate	
Extract	Extract		Extract	Summarize		Extract	
Summarize	Summarize		Summarize	Classify		Summarize	
Classify	Classify		Classify			Classify	
<i>Open Source</i>	<i>Open Source</i>	<i>Open Source</i>	<i>Open Source</i>	<i>Open Source</i>	<i>Open Source</i>	<i>Meta</i>	<i>3rd Party</i>
Why me: Built on enterprise-relevant datasets; IP protections	Why Me: Flexibility	Why Me: Special Characters Context Length	Why Me: Multi-Lingual Model 100+ languages	Why Me: Medium Instruct	Why Me: Small Instruct	Why Me: Chat	Why Me: Code

Product documentation [link](#)

Other data /
modality

Natural
Language

Code

What IBM offers

watsonx.ai: IBM Granite Models

IBM's approach to AI model development is **grounded in core principles of trust and transparency.**

You can use them for:

- Summarization
- Insight extraction and classification
- Retrieval-Augmented Generation (RAG)

These models have been trained on enterprise-relevant datasets across these domains:

- Internet
- Academic
- Code
- Legal
- Finance

Text extraction

6.48T of extracted data

Remove duplicates

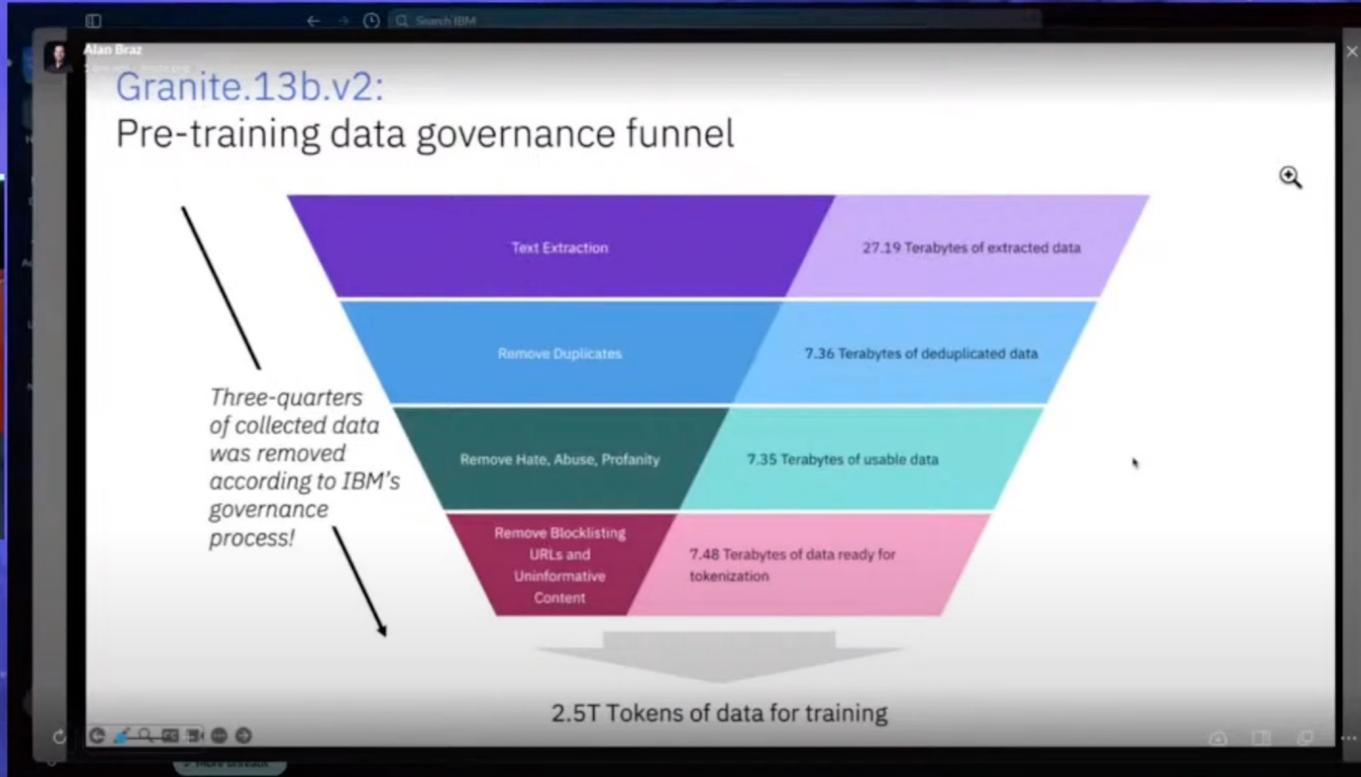
4.9T of deduplicated data

Remove HAP

3.79T of usable data

Remove poor quality

2.07T of data for tokenization



<https://ibm.biz/wx-chat-demo>

Experimentar a nova interface de chat gratuíta

múltiplos modelos
granite, llama
testar português



IBM watsonx.ai demo 30 trial days left Try watsonx.ai for free → ?

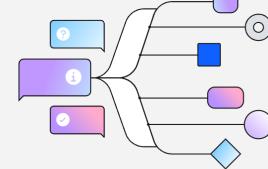
0 / 20,000 tokens ⓘ

AI Model: llama-3-70b-instruct New chat +

watsonx 12:18 PM

Hello! Are you ready to chat?

You chat with the single large language model. This demo does not include agents, simultaneous chat with multiple models, multi-modal models, or other functionality to enhance results. Models might not have knowledge of recent events.



Quick start samples

- Describe generative AI with emojis.
- Write a Python function, which generates a sequence of prime numbers.
- Create a chart of the top NLP use-cases for foundation models.
- How can generative AI help my enterprise business?

Type something... ➤

50,000 tokens/mês
parâmetros
API, SDK
AutoAI

Tutorial prompt-
engineering
<https://ibm.biz/watsonx-prompt>

<https://www.ibm.com/products/watsonx-ai>

watsonx.ai

Now available—a next generation enterprise studio for AI builders to train, validate, tune and deploy AI models

Start your free trial



Explore the watsonx.ai demo



<https://www.youtube.com/watch?v=jzPjIUhNXkM>
<http://pullrecast.dev>

The screenshot shows a video player interface. The video content is titled "How to scale AI across the business" and "Putting AI to work on Hybrid Cloud". It features a thumbnail of a speaker and the URL <https://www.youtube.com/watch?v=jzPjIUhNXkM>. The main area displays a diagram of a hybrid cloud architecture. At the bottom, there's a caption in Portuguese: "ontem pelo Sanderson, que, isso possibilita a gente". The video player has a red progress bar at the bottom. On the right side of the video player, there's a sidebar with the IBM Research logo, a profile picture of Alan Brazil, and the URL <ibm.com/>. Below the video player, there's a transcript and summary section with the title "Aprenda IA Generativa com IBM watsonx.ai na prática | TechWeek7". The transcript includes the text "Pull reCast - Desenvolvendo sua Eminência Técnica" and "1.25K subscribers". The video player also includes standard controls like play/pause, volume, and zoom.

IBM TechXchange

Brasil watsonx

<https://ibm.biz/watsonx-br>



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IBM TechXchange Community

Together, we can connect via forums, blogs, files and face-to-face networking.

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IBM TechXchange Brasil watsonx

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We are the user group in Brazil to learn and propagate the knowledge about Generative AI and watsonx products, specially but not limited to watsonx.ai, in Brazil events and customers meetings. Content preferable in Brazilian Portuguese.

Grupo de usuários do Brasil para aprender e espalhar o conhecimento sobre a IA Generativa e os produtos watsonx, especialmente, mas não exclusivamente, o watsonx.ai, em eventos do Brasil e encontros com clientes.

Comece a Colaborar

Bem-vindo à comunidade watsonx do Brasil, um espaço colaborativo onde os construtores e usuários de IA se reúnem para compartilhar experiências, se apoiar mutuamente e abordar em conjunto a implementação de soluções de IA Generativa.



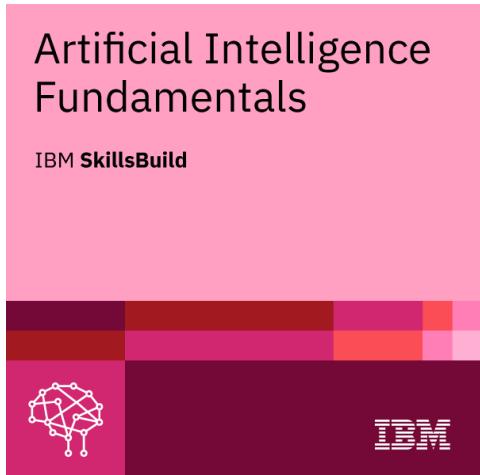
Leaders and Liaisons

 Alan Braz

 Sérgio Gama

Cookie Preferences 47

10h
gratuito em
português



Plano de aprendizagem

Fundamentos da inteligência artificial (Ganhe uma credencial!)

Aproximadamente 10 horas 8,222 348

Compartilhar

Em andamento

0%

0 concluídas de 6 obrigatórias

[Atualizar](#)

[Mostrar mais](#)



Cursos

0 de 6 concluído(s)

Optional courses

Opcional

Informações de

credenciais

Opcional

Sobre este plano de aprendizagem

A inteligência artificial (IA) desperta seu interesse? Aqui está sua chance de se imaginar em uma carreira de IA! Você vai explorar o histórico da IA e descobrir como ela pode mudar o mundo. Ao longo do percurso, você vai descobrir de que maneiras a IA faz previsões, entende linguagem e imagens e aprende usando circuitos inspirados no cérebro humano. Após uma simulação prática na qual você constrói e testa um modelo de aprendizado de máquina, é possível receber dicas de como buscar sua própria carreira na área de inteligência artificial.

Conclua os cursos obrigatórios a seguir para obter uma credencial digital do IBM SkillsBuild reconhecida pelo setor chamada **Fundamentos da inteligência artificial**:

1. Introdução à inteligência artificial
2. Processamento de linguagem natural e Visão por computador
3. Aprendizado de máquina e Deep learning
4. Execute modelos de IA com o IBM Watson Studio
5. Ética da IA
6. Seu futuro na IA: o panorama de trabalho

[Cancelar matrícula](#)

Ações

<https://skills.yourlearning.ibm.com/activity/PLAN-7913EE1DB030>

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Beginner Course

Prompt Engineering for Everyone

Prompt Engineering, Generative AI, LLM, +1 more

9.72k+ Enrolled

5 Hours 

Beginner Course

Introducing AI

Artificial Intelligence

6.34k+ Enrolled

1 Hour 

Beginner Course

AI Ethics

Artificial Intelligence, Ethics, Bias, +2 more

2.29k+ Enrolled

1 Hour 

Beginner Course

AI Concepts

Artificial Intelligence, Machine Learning, Deep...

1.73k+ Enrolled

1 Hour 

Intermediate Guided Project

Build a Chatbot to Analyze PDF Documents Using LLM

Python, Generative AI, LLM, +2 more

570 Enrolled

60 Min 

Beginner Guided Project

Build a Chatbot in less than an hour with watsonx!

Chatbots, Generative AI, Artificial Intelligenc...

600 Enrolled

1 Hour cognitiveclass.aicoursera.org/specializations/generative-ai-for-everyone

Programa de cursos integrados Generative AI Fundamentals

Unlock and leverage the potential of generative AI. Learn how you can use the capabilities of generative AI to enhance your work and daily life.

 Ministrado em Inglês



Instrutores: [IBM Skills Network Team](#) + Mais 2

Cadastre-se gratuitamente
Inicia em Nov 30

Auxílio financeiro disponível

Saiba mais...

Desbloqueando a produtividade com watsonx.ai: Como a IA pode revolucionar seu negócio?

Alan Braz
TDC Future 8/12/2023

WatsonX AI logo

Desbloqueando a produtividade com watsonx.ai:Como a IA pode revolucionar seu negócio?
Não listado

Pull reCast - Desenvolvendo sua Eminência...
1,11 mil inscritos

Analytics Editar vídeo

Like 2 Compartilhar Promover Download ...

<https://youtu.be/UVMcgWUohwo>



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Acompanhe as notícias e
mais eventos no [@pullrecast](#)

2:10

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70 posts 315 followers 27 following

Pull reCast | Podcast sobre tecnologia
Digital creator

Explorando o universo tech!
Apresentado por @alanbraz e @matbit
Não representa opiniões da IBM... more

See Translation

@ pullrecast.dev and 2 more

Followed by scriptorebraz, matbit and 87 others

Following Message

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Conheça o Pull reCast!

WatsonX SEVILLA FC

Obrigado

Alan Braz
Lead Research Developer
IBM Research
<http://alanbraz.com.br/stc.pdf>

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Client examples are presented as illustrations of how those clients have used IBM products and the results they may have achieved. Actual performance, cost, savings or other results in other operating environments may vary.

Not all offerings are available in every country in which IBM operates.

It is the user's responsibility to evaluate and verify the operation of any other products or programs with IBM products and programs.

The client is responsible for ensuring compliance with laws and regulations applicable to it. IBM does not provide legal advice or represent or warrant that its services or products will ensure that the client is in compliance with any law or regulation.