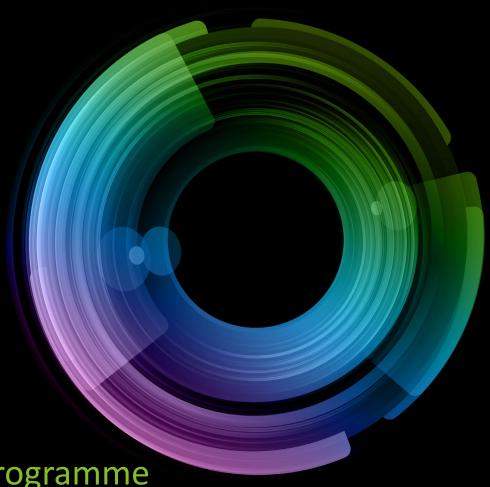
### Deloitte.



Deloitte Boardroom Programme
Tech Series - Part 2: Generative Al

### **Deloitte.**



Generative Al

**JUNE 2023** 



#### **GENERATIVE AI 101**

# Why the Hype?

# Al's exponential advancement could spur \$15.7T in economic growth by 2030

Article by Jacob Bourne | Mar 2, 2023

Report: Al is weapon of 'mass disruption'

Maria Korolov / February 23, 2023 / 2 Comments

CANADA

'It's perfect': World's first generative AI-designed COVID drug to start clinical trials

Believed to be the world's first COVID-19 therapeutic created by generative AI, the drug will soon begin clinical trials, the Canadian-founded company appeared.

ARTIFICIAL INTELLIGENCE | MACHINE LEARNING

DeepMind CEO Urges Caution With AI

By Paul Mah on January 18, 2023



ODINIO

Legal minefield awaits for businesses looking to use artificial intelligence

ARJUN GUPTA

SPECIAL TO THE GLOBE AND MAIL PUBLISHED FEBRUARY 15, 2023

**TECH • ARTIFICIAL INTELLIGENCE** 

The AI Arms Race Is Changing Everything

#### Internet Sensation ChatGPT Crosses 1 Million Users In 5 Days

California-based OpenAI's newest prototype ChatGPT has left people wanting more

Features | February 3, 2023

#### Generative AI solutions like ChatGPT could worsen the spread of fake news, expert warns

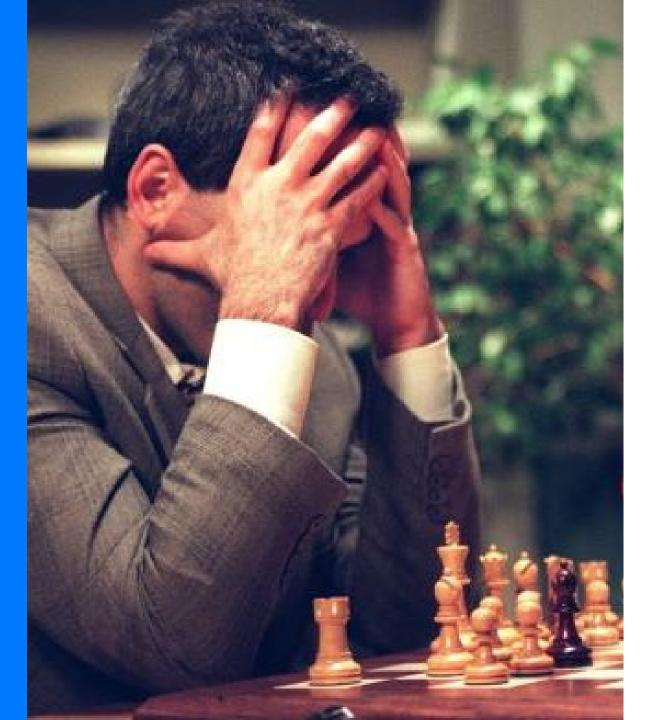
ChatGPT has been hailed a silver bullet for a plethora of industries, but don't quit your day job just yet.

Eric Johansson

**DAVOS 2023** 

Generative AI: a game-changer that society and industry need to be ready for

# How did we get here?





# 1997

### Deep Blue (Explainable AI)

Deep Blue was a chess-playing computer that defeated world champion Garry Kasparov in a 1997 rematch, marking the first time a machine beat a human world champion.

First AI win against top human talent



**FEBRUARY** 

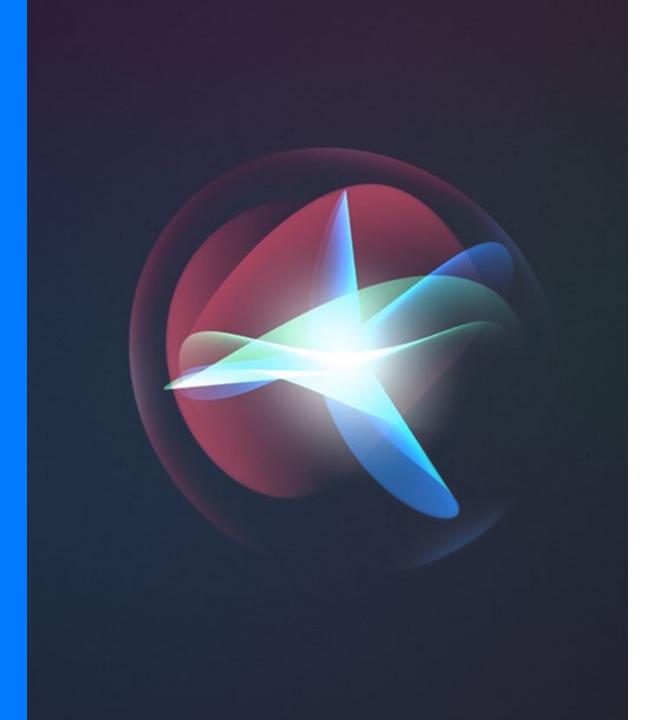


2011

Watson (Explainable & Conversational Al)

Watson, an Al system developed by IBM, defeated Ken Jennings and Brad Rutter in Jeopardy in 2011, demonstrating advancements in natural language processing and Al capabilities.

First public instance of having a conversation with a computer





2011
OCTOBER

#### Siri (Conversational AI)

Siri's release marked a significant milestone in voice assistant technology, paving the way for future advancements and popularizing the use of Al assistants in everyday life.

iPhone owners begin to leverage Al in their daily routines





# 2014 NOVEMBER

#### **Alexa (Conversational AI)**

The release of Amazon's Alexa was significant as it marked the mainstream adoption of voice-controlled virtual assistants, transforming the way people interact with technology.

First homebased virtual assistant



"I thought AlphaGo was based on probability calculation and that it was merely a machine. But when I saw this move, I changed my mind. Surely, AlphaGo is creative."

Lee Sedol Winner of 18 world Go title

#### **EVOLUTION OF AI**



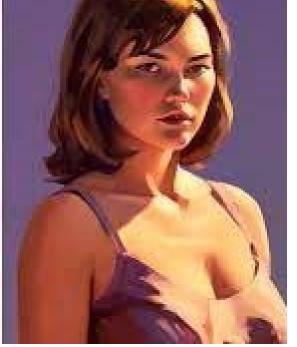
# 2016

#### AlphaGo (Explainable AI)

AlphaGO was an Al program developed by Google DeepMind that defeated the world's best human players in the game of Go, showcasing the potential of Al.

First public demonstration of artificial creativity







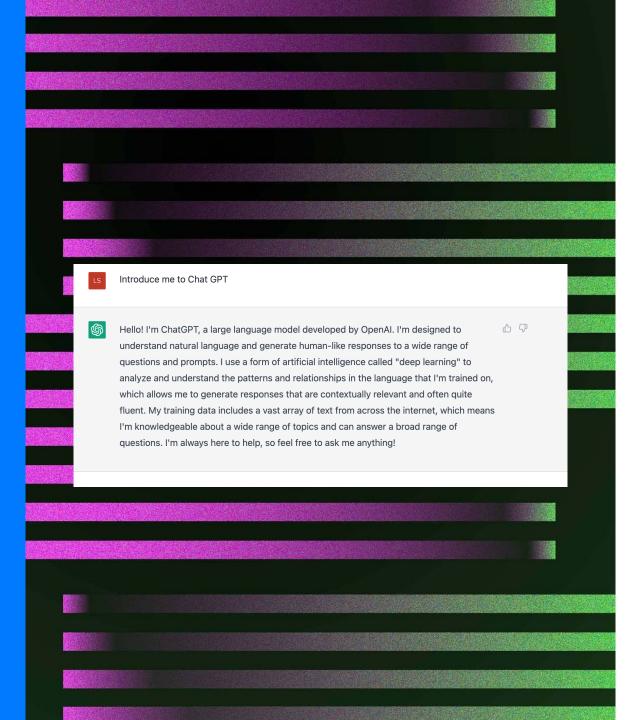


# 2022 OCTOBER

#### Lensa (Generative AI)

Al generated avatars made news as human users uploaded selfies to the program which generated images that morphed them into "Magic Avatars".

First case of mass social media adoption of generative Al



# 2022 NOVEMBER

#### **ChatGPT (Generative AI)**

Within 5 days of its release 1 million users were testing out Chat GPTs ability to provide human-like answers in plain English, respond to follow-up questions and admit its mistakes.

First
generative Al
tool that
cracked into
mass public
consciousness

**GENERATIVE AI 101** 

# The future is still unfolding



2014

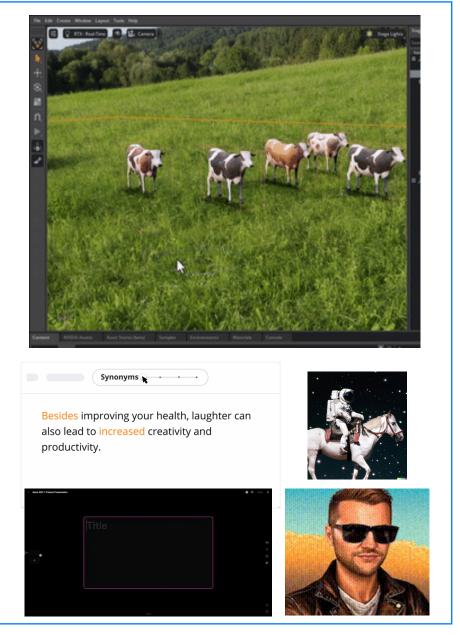






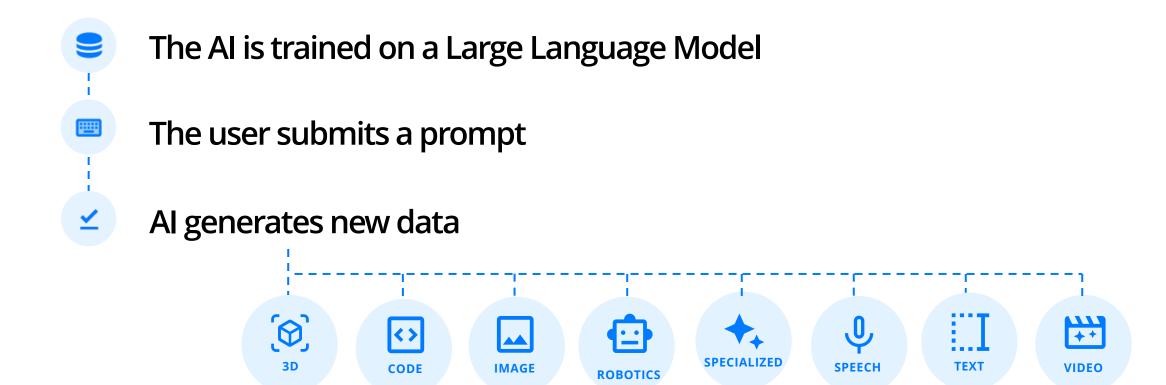


2018





### **How Generative AI works**



#### Primer

## **Generative AI Ecosystem**

A few players have large foundational models









co:here

**ANTHROP\C** 





stability.ai

And it's a busy application landscape \*



Jasper

**Adept** 













copy.ai



(b) tabnine

Plus, hundreds more

**MISCONCEPTIONS** 

# Common Misconceptions about Generative Al

"Generative
Al will replace
Human
Creativity"









"Al is going to take over the world."









**BENFITS & RISKS** 

# Exploring the Benefits and Risks of Generative Al

#### **GENERATIVE AI 101**

### **Benefits & Risks**



#### **Benefits**

There are many ways that generative Al can create both value and efficiencies



Accelerate
Content Output



Increase Task Automation



Drive Cost Efficiencies



#### **Risks**

With any technology, generative Al can pose certain risks to be aware of



Improve Customer Experience



More Decision-Making Inputs

#### **GENERATIVE AI 101**

### **Benefits & Risks**



#### Benefits

There are a number of ways that generative AI can help improve our lives









#### **Risks**

With any technology, generative Al can pose certain risks to be aware of





### **Generative AI Lab**

The lab aims to delve into Generative AI and its implications for your organisation, fostering collaboration with seasoned AI specialists and strategists who will guide you in envisioning the transformative potential of this technology.

Deloitte aims to create an environment where no question remains unanswered, in order to leave you equipped with a practical direction to steer your company confidently into the future.

Our objective is to provide a tangible action plan that enables leadership to spot the opportunities and challenges emerging within the industry, empowering them to make informed strategic decisions.

2 HOURS	<ul> <li>Understanding generative AI</li> <li>Getting your hands dirty</li> <li>Introduction to generative AI, incl. ChatGPT/GPT-4</li> <li>Hands-on experience with Generative AI</li> <li>Views of the future, how your industry be impacted</li> <li>Risks and ethical considerations</li> </ul>
2 HOURS	<ul> <li>Define the impact</li> <li>Define strategic imperatives</li> <li>Explore the opportunities and threats to your industry, value chain and company (use cases)</li> <li>Define 100 day plan to start building a generative AI capability</li> </ul>



Thank you!



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