

# AI Workshop: What you need to know

April 23, 2024



# Speakers



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By Katsushika Hokusai (1831) - Metropolitan Museum of Art



- 01 Introduction to Artificial Intelligence
- 02 Generative AI explained
- 03 Key differences between Generative & Discriminative AI
- 04 Why use AI as a legal/contract professional?
- 05 How to use AI as a legal/contract professional?



**“The thing about AI, it’s almost like  
electricity in the number of ways you  
can use it.”**

— Meghan Keaney Anderson  
*Former Head of Marketing at Jasper |  
Cockpit Counsel*



**Artificial intelligence (noun):**  
***"the capability of computer systems  
or algorithms to imitate intelligent  
human behavior"***

— Merriam Webster



# Artificial intelligence - a brief history

1950s - "Artificial intelligence" coined as a field of study

1997 - Chess master Gary Kasparov loses to IBM's Deep Blue

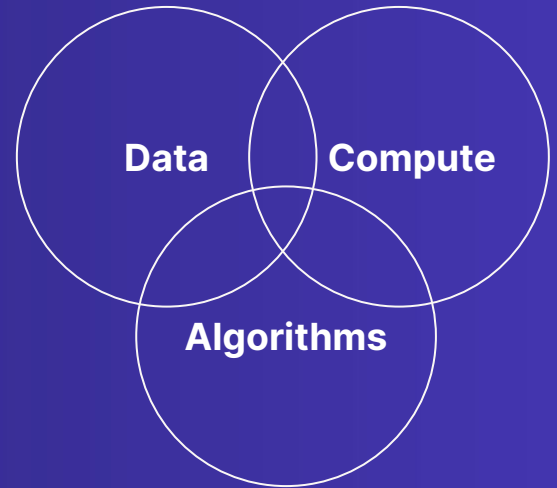
2007 - Revolutionized speech recognition using LSTM networks

2012 - Breakthrough in image recognition using convolutional neural networks

2019 - Improved natural language processing with Google's BERT

2020 - GPT-3 - Large language model capable of generating text

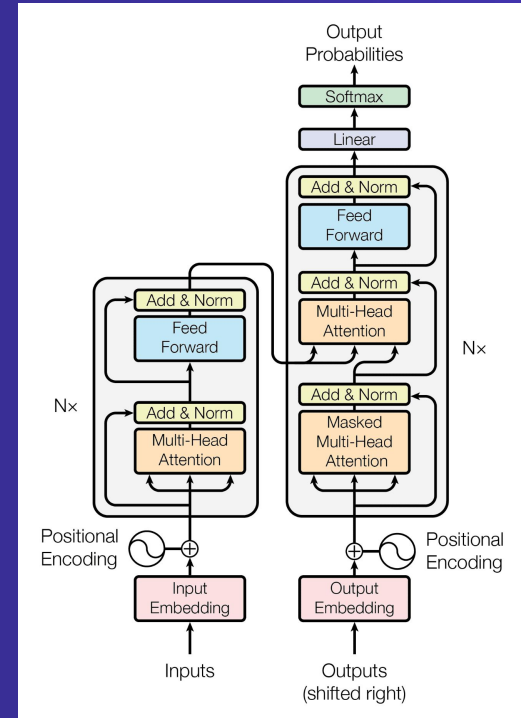
2022 - ChatGPT (GPT-3.5) released





# Artificial Intelligence - Algorithms

- Decision trees
- Support vector machines
- Linear and logistic regressions
- Deep Learning (Neural Networks)
  - Supervised learning
    - Convolutional Neural Networks (CNNs)
    - Recurrent Neural Networks
      - Long Short-Term Memory networks (LSTMs)
      - Gated Recurrent Unit
  - Unsupervised learning
    - Self-organizing maps
    - Auto-encoders
      - Restricted Boltzmann machines
- Transformer architectures (used by Generative AI)



[Attention is all you need \(2017\)](#)



# Discriminative AI - explained

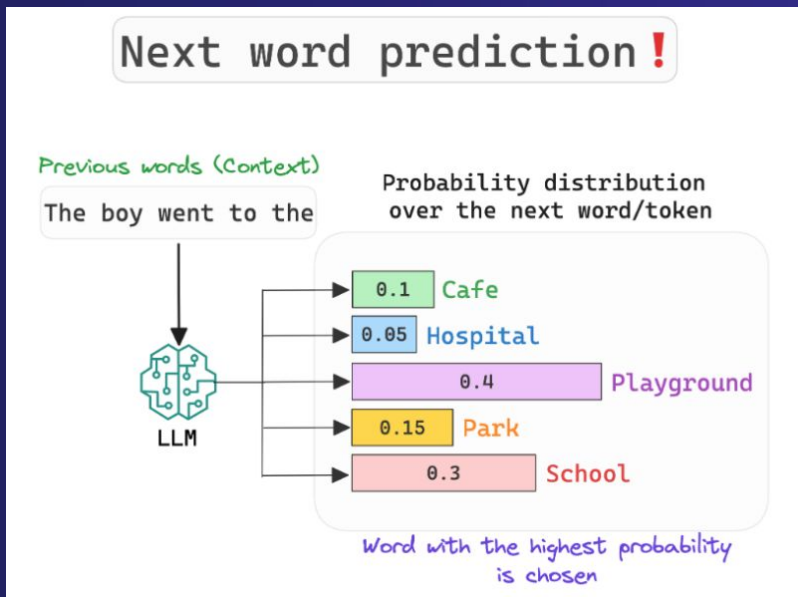
- Discriminative AI labels or categorizes input data
  - Long Short Term Memory (LSTM) neural networks are a popular algorithm for labeling text
  - Better training data increases accuracy

15. **Governing Law.** This Agreement shall be governed by and construed in accordance with the laws of the State of **New York**

Label "New York" as a probable governing law based on surrounding context



# Generative AI explained



Transformer architecture with attention mechanism introduced, first Large Language Model - BERT (2017/2018) by Google

## 💡 Scalability of data

No evidence of saturation!

Trained on billions of words (tokens): Wikipedia + 1000s of books

Task is to guess 15% of hidden words (tokens)

- Transformer becomes the basic building block for many tasks (many 'heads' typically)
- Most now trained on next token prediction
- Generation: We can now 'produce' text, i.e. guess the next most likely token over and over



# Discriminative vs. Generative AI

|                          | <b>Discriminative AI</b>   | <b>Generative AI</b>   |
|--------------------------|--|--|
| Conceptual differences   | Designed to classify input data into predefined categories. These models learn from the labeled data to make predictions or decisions based on the input features. | Focuses on generating new data instances. Generative models learn the distribution of data and can produce new, unseen data points that mimic the learned patterns.                    |
| Training data            | Requires labeled training data as input  | Require large datasets to effectively learn the underlying data distribution   |
| Capabilities and outputs | Excels in tasks where the goal is to accurately classify new examples into known categories  | Capable of creating complex data like images, texts, or music that are indistinguishable from real-world examples. Useful in tasks requiring creativity or extensive data augmentation |
| Strengths & limitations  | Generally more reliable for tasks with clear right or wrong answers but lack the flexibility to handle tasks requiring generation or creativity                    | While powerful, they often require more computational resources and can sometimes produce unpredictable outputs if not properly trained or constrained                                 |
| Practical examples       | Document classification and extraction   | Summarizing, drafting and augmenting legal documents/language  |



# How should you use AI in your day-to-day?

## SAFELY!

- **Ethics considerations:** Employing AI in the areas necessitates a commitment to transparency, data privacy, and fair dealing to mitigate biases and ensure ethical practices are upheld.
- **Drafting and review:** AI-powered systems enhance contract drafting and review, highlighting non-compliant, costly, or risky clauses.
- **Milestone tracking:** AI ensures tracking of contract milestones with reminders for renewals, optimizing cost and performance.
- **Supplier evaluation:** AI algorithms assess suppliers on cost, quality, reliability, and compliance, aiding in RFX shortlisting.
- **Negotiation support:** AI tools analyze data for strategy development and facilitate stakeholder-supplier communication, aligning with goals.



# Benefits of AI in strategic sourcing

## Contracts review and management

- Transparency & efficiency
- Engaging in cross-functional business categories
- Accelerated drafting
- Risk analysis (Gen AI)
- Clause identification and comparison (GenAI)
- Knowledge management (GenAI)



# Key takeaways

Keep in mind that:

1. Generative AI is not a replacement for predictive AI
2. AI is not a replacement for you

## It will keep getting better

What are legal teams concerned with?

How do we address these concerns?

Be aware of AI limitations, but should have baseline knowledge of how to make things better, easier, faster.



# Policies

Responsible use

## Keep it simple

- Align your AI policy with your existing policies
- Present AI policies with clear and concise language that stakeholders across the organization can easily understand
- AI is meant to support human capabilities, not replace them

**Thank you!**