Al Fundamentals





My name is **Uwais Iqbal**.

I've been designing and building Al systems in the legal tech space for close to a decade now.

I've held roles as a Machine Learning Engineer as well as a Senior Data Scientist across leading startups like Eigen Technologies and Thought River and at Thomson Reuters Labs.







simplexico

I'm the Founder & CEO of simplexico - The Legal Al Consultancy. We offer white-glove Legal Al education, design and development services and work with legal teams and law firms across the world.

We are on a mission to help legal professionals step into a future of collaboration with Al \mathscr{A} .

Education

Al education and literacy through training sessions, workshops and educational programmes.



Design

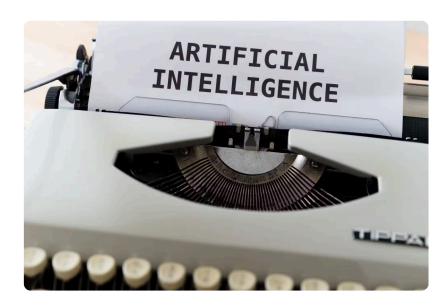
Use case discovery and design through interactive workshops and engagements.



Topical Development

Bespoke AI co-creation and implementation for legal built inside the firm.

🔦 Defining Al



Al tends to get thrown about as a buzzword more than it should. You probably already know that Al stands for artificial intelligence.

With all of the hype around AI, a good place to start is by clearing up what we actually mean by AI.

Here's a dictionary definition of artificial intelligence:

the theory and development of computer systems able to perform tasks that normally require human intelligence, such as visual perception, speech recognition, decisionmaking, and translation between languages.

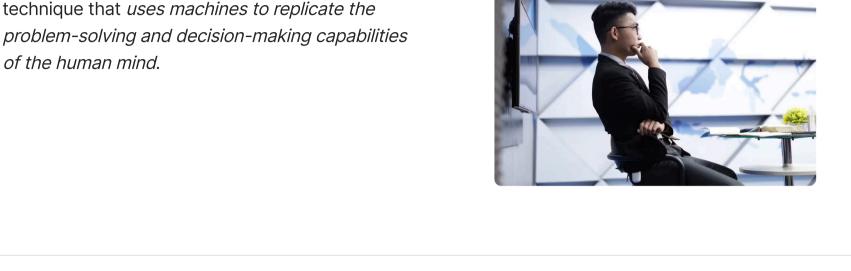


In 1956, one of the founding fathers of AI, John McCarthy, defined artificial intelligence as machines that can perform tasks that are

characteristic of human intelligence.



We can think of artificial intelligence as a



+ Artificial + Intelligence

🔖 Artificial

The artificial part in Al means that it's complete mimicry and imitation. There's nothing beyond that!



The intelligence part in Al means that we want to

Intelligence

try and replicate some uniquely human capability around problem-solving.

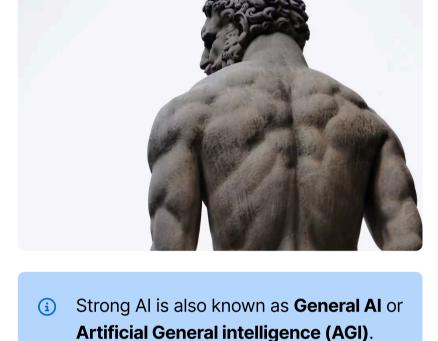


I ne Different Kinds of Ai

Researchers usually break Al down into two kinds: Strong Al and Weak Al.

A common categorisation of the different kinds of AI is based on what the AI system is capable of doing.

Strong Al



The system can learn, perceive, understand, and function completely like a human being.

possible.

reached a level of human intelligence.

Strong AI refers to an AI system which has

At the moment, we haven't developed such systems so Strong AI is still something purely

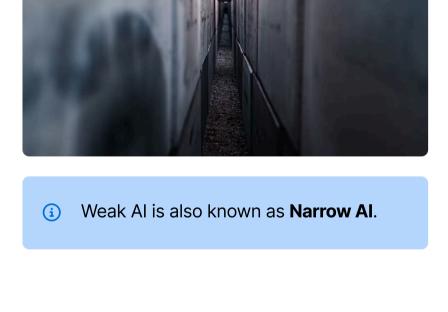
theoretical. Many researchers are sceptical as to

whether Strong Al systems are even

Weak AI refers to an AI system that can perform a specific and precise task like extracting a field from a contract or clustering a set of documents.

Weak Al

The AI systems we have today are all examples of Weak Al.



The comic on the left is sarcastic but it's

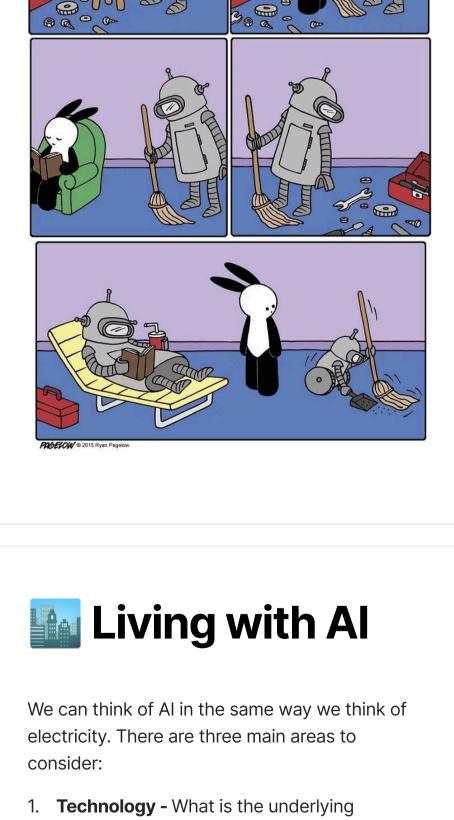
An easy way to think about where Al can be

1. **Q** Capturing Expertise - What is the

applied is to think of Al as a way of:

actually quite accurate (apart from the final strip).

Carried Thinking about Al



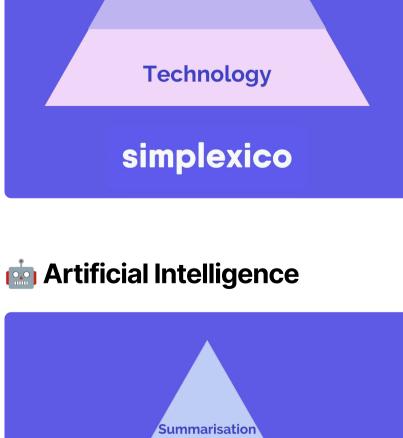
looking to imitate through the use of a machine? 2. **Scaling Expertise** - How do you benefit

from being able to replicate machines?

particular human cognitive skill you are

technology powering it? 2. **Application -** What is the application that makes use of the technology?

3. Use - What uses does the application enable?



Use

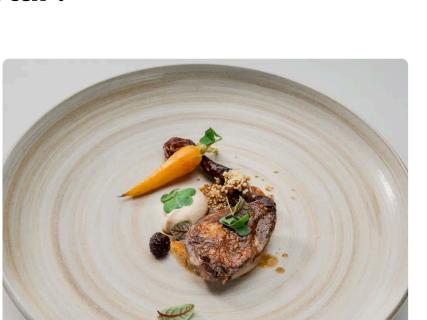
Application

Electricity









The Emergence of Legal Al



What can Al actually do in Legal?

We can zero in on how Al is used in the legal sector to come up with Legal Al.

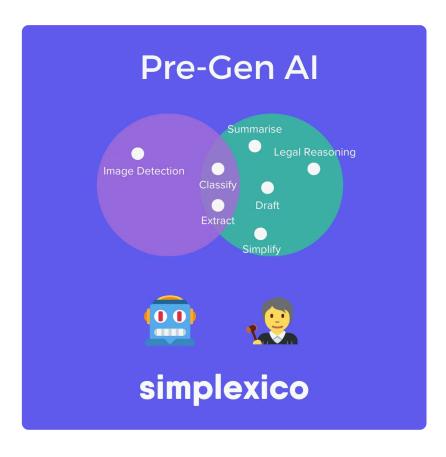
Al is usually used to perform a specific task. This describes what **action** can be performed.

Let's take a look at some actions we can do in Legal with Al.

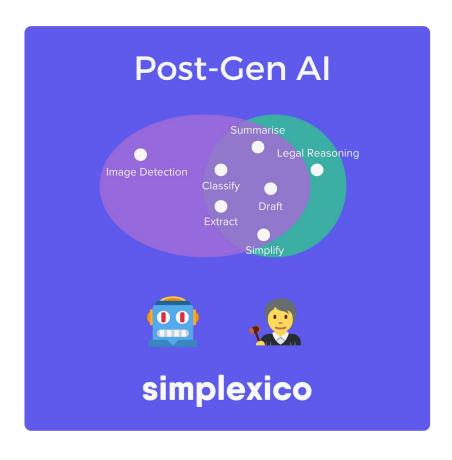
LEGAL AI ACTIONS Through AI we want to mimic actions that humans can perform. The Legal AI actions capture those actions lawyers tend to be involved where AI could now be used. **EXTRACT** LABEL Extracting key pieces of Tagging a text on a phrase, information from a passage of text sentence or paragraph level with to go from unstructured data to a label. This is also know as structured data. classification. **ORGANISE** Organising a collection of texts so Comparing two passages of text on a phrase, sentence, paragraph or that structure is created by grouping together similar texts. This is also document level to identify similarities and differences in known as clustering. wording and meaning. FIND DRAFT Finding relevant information from a Generating text through drafting. collection of texts. This is also known as search or retrieval. **SUMMARISE** & MORE? Creating a short-form summary from Can you think of any other actions? a long-form text. Get in touch and let us know!

What's changed with Al in Legal?

Before

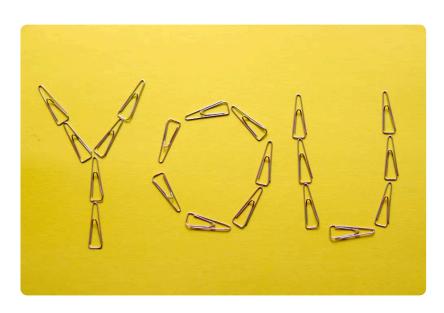


After



The Future of Legal Al?





? Questions

Thank you for your attention!!!!

- i I'm also active on **LinkedIn** and post regularly about AI in the legal industry.
- If you have any questions, feedback or would like to continue the conversation you can reach me at uwais.iqbal@simplexico.ai

