



AI and Legal Services: The Future is Here

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Episode VII

THE FORCE AWAKENS

It is a time of uncertainty.



What is AI?

Definitions

« To find how to make machines use language, form abstractions and concepts, solve the kinds of problems now reserved for humans, and improve themselves »

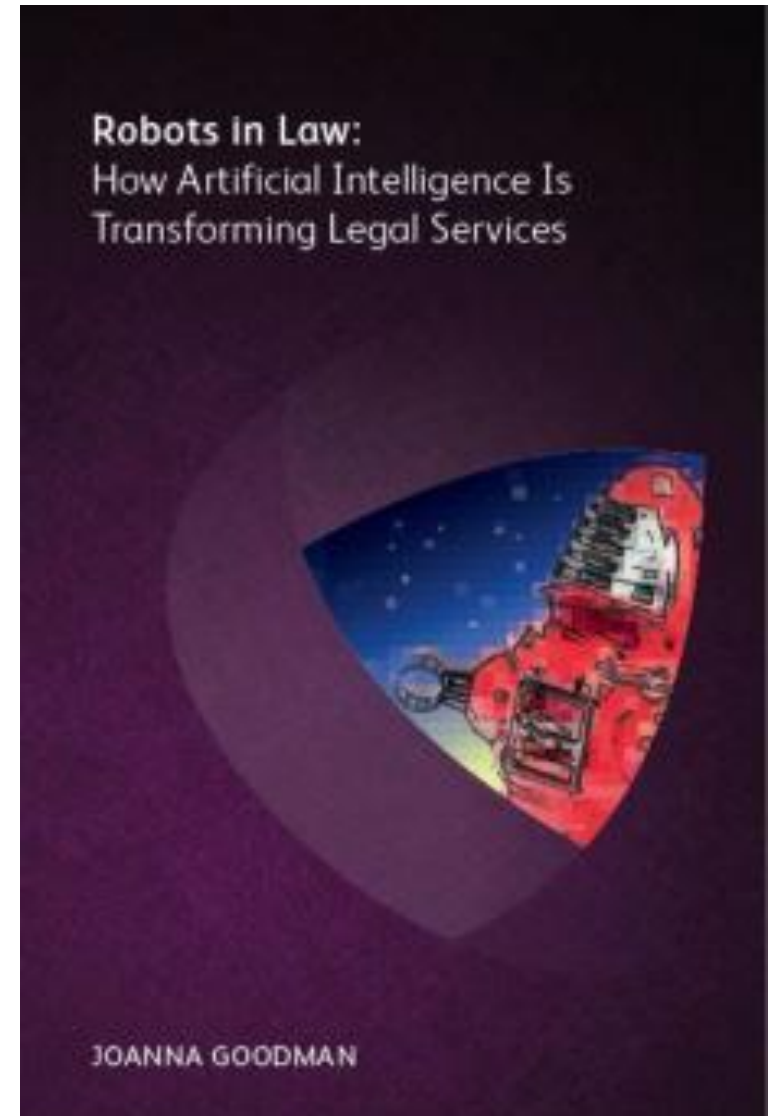
John McCarthy, Dartmouth Artificial Intelligence Conference, 1956

- > « The theory and development of computer systems able to perform tasks normally requiring human intelligence, such as visual perception, speech recognition, decision making, and translation between languages »
- > Oxford English Dictionary
- > « [The automation of] activities that we associate with human thinking, activities such as decision-making, problem solving, learning. »
- > Wikipedia

Robots v. Machines

Some definitions:

- > Weak AI
- > Strong AI
- > Machine Learning
- > Natural Language Processing
- > Expert Systems
- > Planning
- > Robotics





Evolution of AI

In the beginning

- Machine vision
- Language processing
- Expert systems
- Gaming
 - HiTech (1989)
 - Deep Thought (1989)

More recently

Deep Learning: machine learning that models high level abstractions in data with many processing layers

- > Deep Blue
- > Intelligent Agents
 - A system which perceives its environment and takes actions to maximize the chances of success
- > Data Mining
- > Industrial Robotics
- > Logistics
- > Speech recognition
- > Search - Google

Drivers

- > Big Data
- > Cloud Computing
- > Faster Machines
- > Advanced Machine Learning Techniques



```
a = new user(a); $("#User_logged").val(a);
length;c++) { use_array(a[c], a) < b && (a[c]
", c = 0; c < a.length;c++) { b += " " + a[
ed textInput input change keypress paste focus",
IQUE: " + a.unique); $("#inp-stats-all").html(
); }); function curr_input_unique() { } function
[ return ""; } for (var a = replaceAll("
, c = 0; c < a.length;c++) { 0 == use_array(a
or (var a = $("#User_logged").val(), a = replace
b = [], c = 0; c < a.length;c++) { 0 == use_a
c.unique = b.length - 1; return c; } function
== use_array(a[c], b) && b.push(a[c]); } ret
$("#User_logged").val(), b = b.replace(/(\r\n|\n|\r
, ""); inp_array = b.split(" "); input_sum =
_array.length;a++) { 0 == use_array(inp_arr
ass:0)), b[b.length - 1].use_class = use_array(b
gth; a.sort(dynamicSort("use_class")); a.rev
1); b = indexOf_keyword(a, void 0); -1 < b &
ce(b, 1); return a; } function replaceAll(a, b
ay(a, b) { for (var c = 0, d = 0; d < b.length;
y(a, b) { for (var c = 0, c = 0; c < b.length &
a, b) { for (var c = -1, d = 0; d < a.length;d
return c; } function dynamicSort(a) { var b
```

Why leverage AI?

IP administrative tasks

- > Improving efficiency and reducing risk
- > Automating the submission of data
- > Automating incoming work
- > Predictive coding for workflows

Some estimate that 25% of the patent data is incorrect

Search and analytics

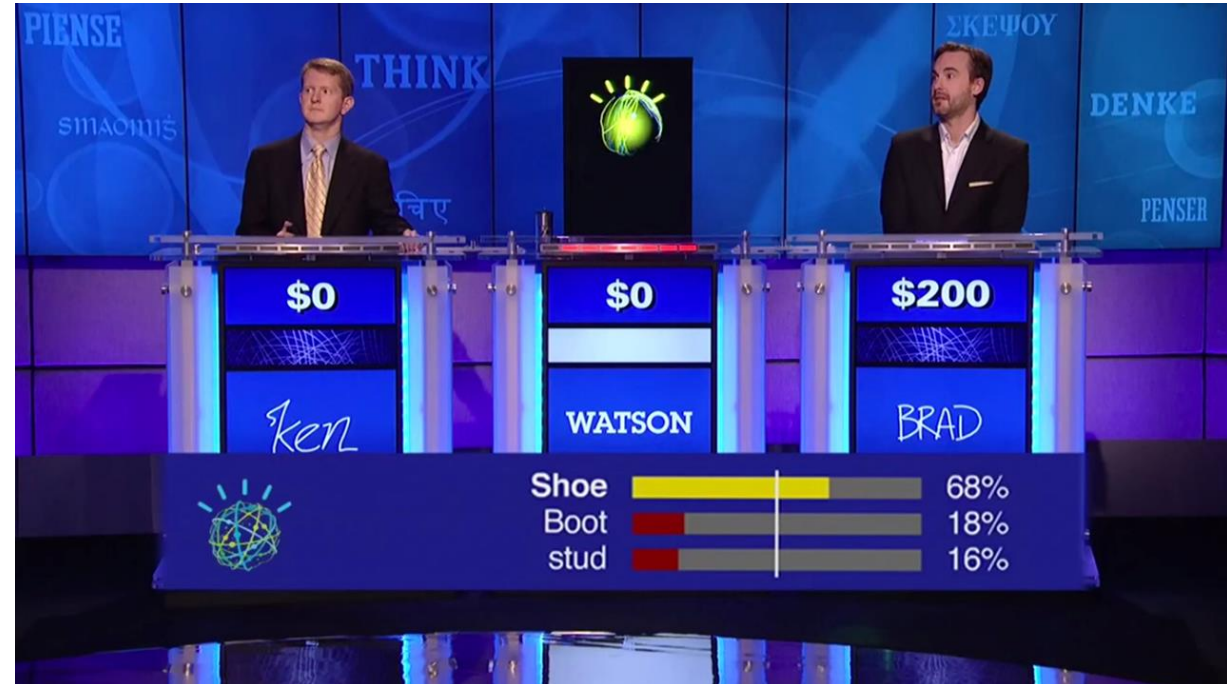
IP resources are growing

- > AI and Machine learning combined can sort through vast sets of documents
- > NLP adds abstraction layer, focusing on concepts rather than keywords
- > Identify key trends in a market
- > Portfolio analysis



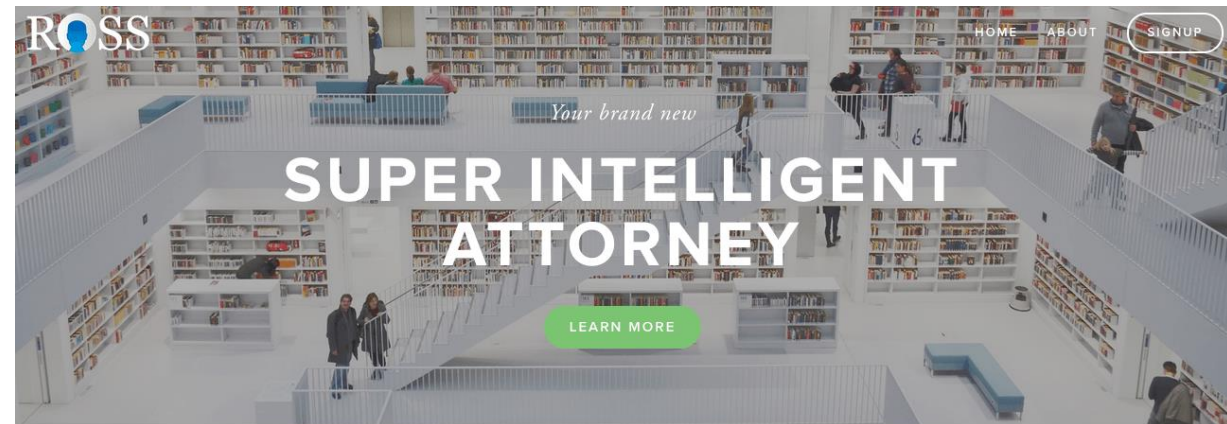
Recent Implementations

IBM WATSON



ROSS

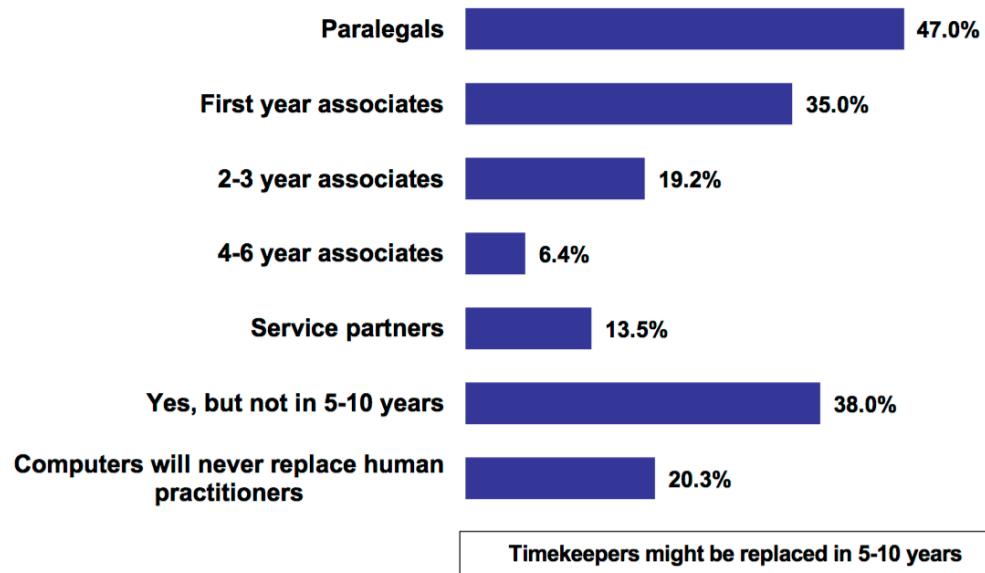
Used to analyze case law and predict outcome or provide answers to specific questions



Built on top of Watson, IBM's cognitive computer,

ROSS

Can you envision a law-focused 'Watson' replacing any of the following timekeepers in your firm in the next 5 to 10 years? (Select all that apply.)



RAVN

Built on iManage platform

- > With RAVN's advanced Artificial Intelligence technology you can simplify your contract governance process and deliver key contract risk analytics to enable you to decide how best to mitigate risk in your organisation. Empower your sales team to alter behaviour and practices to limit delays on deals getting signed.
- > RAVN's Artificial Intelligence Technology is built on the [RAVN ACE](#) platform and gives you the 'Power of Understanding', helps you find information within documents and automate your knowledge intensive processes

- > Search results within a few minutes (3-5)
- > Invalidation and novelty
- > Analytics

XLPAT



What AI is not

A replacement

BUT:

[Donotpay.co.uk](https://donotpay.co.uk)

[Trademarknow.com](https://trademarknow.com)

- > AI systems can assist a professional services firm at many levels, and even be a chatbot for answering basic questions
- > AI systems need to be trained
- > AI systems need to be checked and updated
- > AI systems provide the professional with enhanced knowledge and information to better serve a client or run a business



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