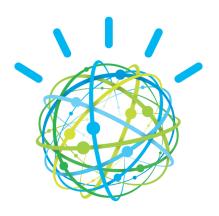


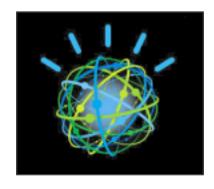
IBM Watson



Justin Fessler – IBM Watson Solution Consultant, U.S. Federal



Smart is: breakthrough content analysis



" ... an information seeking tool that's capable of understanding your question to make sure you get what you want and then deliver's that content through a naturally flowing dialog"

Dr. David Ferrucci Principal Investigator Watson project

IBM Watson (Jeopardy)

Business Challenge

Advance the state of the art in broad domain Question Answer (QA) systems to enable breakthrough applications in many different industries.

What's Smart?

Uses IBM Content Analytics (LanguageWare) in conjunction with other technologies to read, analyze and understand vast sources of unstructured content. Runs many algorithms

unstructured content. Runs many algorithms in parallel to create, compare and determine confidence in candidate answers. Presents answers with a confidence level attached.

Smarter Business Outcomes

Coming to your industry soon! Will deliver value in limitless applications starting with clinical healthcare, customer care, government intelligence and beyond.

Industry context: broad industry value Value driver: improve business decisions Solution onramp: content analytics





Front-line employees typically struggle to get the information and insights they need, when they need them.





Automatic Open-Domain Question Answering A Long-Standing Challenge in Artificial Intelligence to emulate human expertise

Given

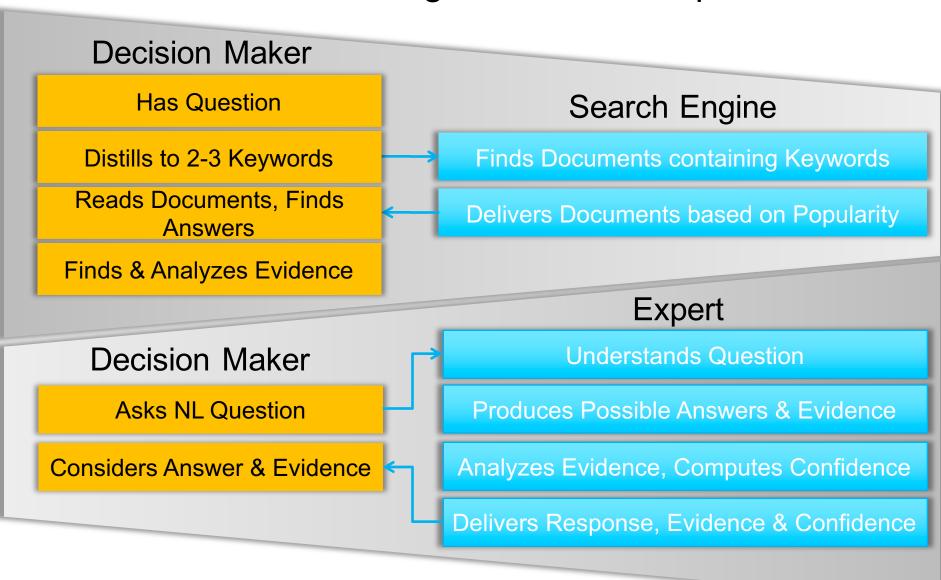
- Rich Natural Language Questions
- Over a Broad Domain of Knowledge

Deliver

- Precise Answers: Determine what is being asked & give precise response
- Accurate Confidences: Determine likelihood answer is correct
- Consumable Justifications: Explain why the answer is right
- Fast Response Time: Precision & Confidence in <3 seconds</p>

4

Informed Decision Making: Search vs. Expert Q&A



Chess

- A finite, mathematically well-defined search space
- Limited number of moves and states
- Grounded in explicit, unambiguous mathematical rules

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Human Language

- Ambiguous, contextual and implicit
- Grounded only in human cognition
- Seemingly infinite number of ways to express the same meaning



Watson Use-Case Categories

Engagement

IBM Watson Engagement Advisor



Customers, Citizens

Transform Customer Experiences

Decisions

IBM Watson
Interactive Care &
Insights



Clinicians

Improve Diagnosis, Treatment, Policy Adherence

Discovery

IBM Watson Discovery Advisor



Analysts, Legal, Academics

Accelerate Research and Insights

Challenges

Watson Explorer

Information Access

Data, applications and services distributed on-premise and in cloud—employees struggle to get a complete view



Explore

Provides a 360-degree view of information from ALL sources to enable better decisions

Unstructured Content

80% of data is unstructured but only a small percentage leveraged for insights



Analyze

Delivers insights from unstructured content

Scaling Expertise

Pressure to increase performance and innovation—while doing more with less



Interpret

Applies cognitive computing to scale human expertise

THANK YOU

