

# Machine Generated doctrine

The new frontier in law and AI

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# Digitization of law : The story so far



Fully automated legal decision making with IF-THEN logic and for quantifiable decision outcomes (eg Tax, Welfare support, etc.)

Automated Data retrieval (registered residence information, medical records, tax records, criminal records etc.)

Decision-support systems (paradigms, automated checklists, etc. )

# The AI revolution



Machine Learning for decision support systems



General Purpose AI (mainly Large Language Models / Generative Pretrained Transformers) for legal information retrieval



SLS

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# GPT-4 Passes the Bar Exam: What That Means for Artificial Intelligence Tools in the Legal Profession

April 19, 2023 | By Pablo Arredondo, Q&A with Sharon Driscoll and Monica Schreiber

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Empowering Responsible AI Usage for Practicing Attorneys



# GPT-4 and the Bar Exam: A Closer Look at the Hype and Reality

Blog

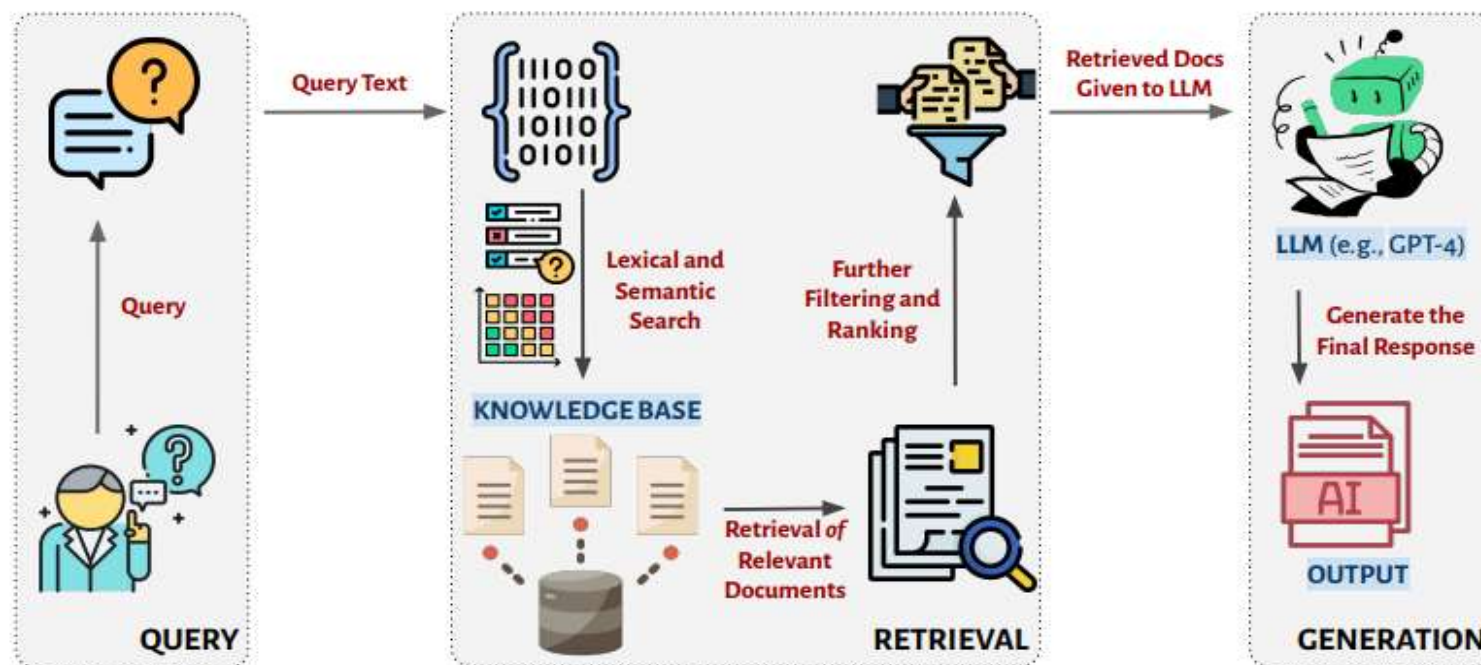
June 10, 2024

🕒 Estimated reading time: 1 minute



Trent Kubasiak

# Improving performance with knowledge base



# Still there are risks when using GPT's for legal decision-making



AI Act high risk application areas for legal decisions (annex III, 5-8)



GDPR legality requirements when processing personal data



Statistical models have difficulties operating with rules

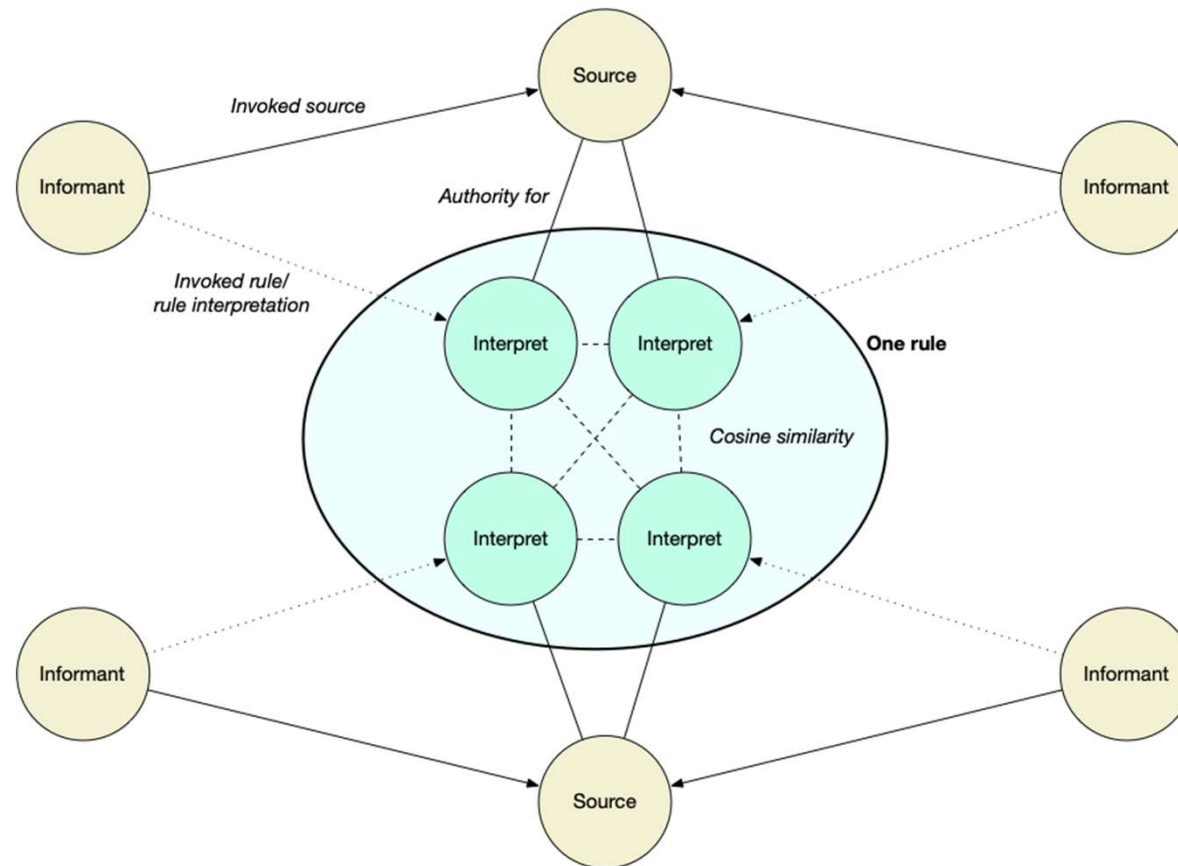


Facts are not understood as facts but as vectors in the language model

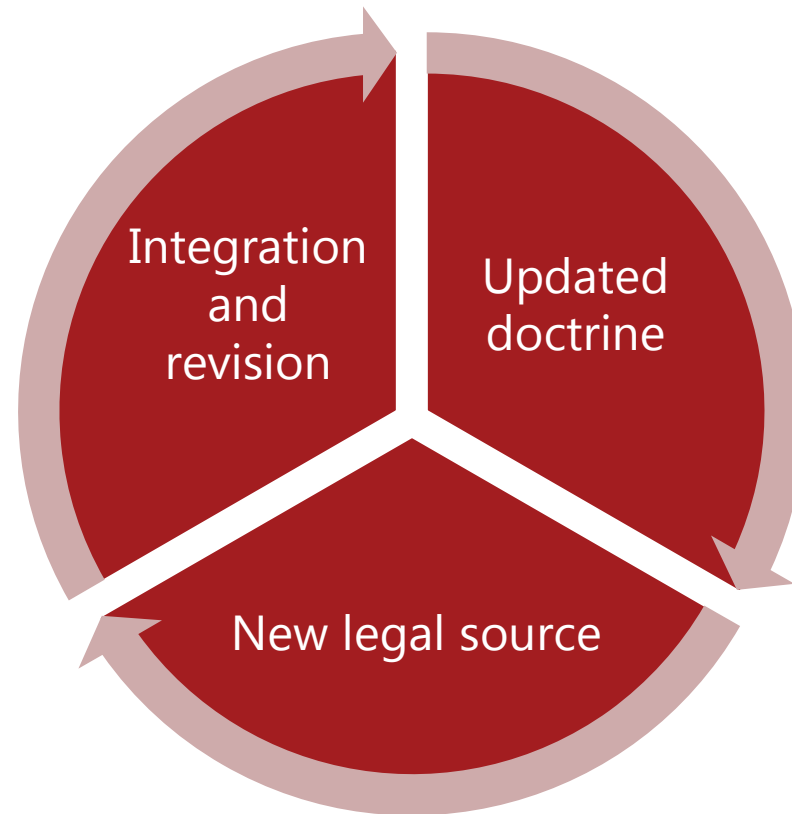
## But what about using GPTs for writing legal doctrine?

- Doctrine is an integrated part of the law and legal practice. While not an authoritative source of law it is used to present the law as a coherent normative system.
- Doctrine (textbooks, journal articles, dissertations) contributes conceptual structure and overview to legal practitioners without directly interfering with decision-making
- Since writing doctrine is not high risk, neither involves processing of personal information, there is no immediate risk involved in using the technology for this purpose
- Machine generated doctrine can be validated through ordinary peer review

# Strengthening the computational derivation of legal rules for machine generated doctrine



# The new machinery for writing legal doctrine



## Use potentials of AI doctrine

- Personalised doctrine (Doctrinal AI Agents with a specific profile)
- Construct doctrinal debates between various AI Agents
- Build artificial adversaries to test out litigation strategies
- Write legal commentaries
- Predict doctrinal impact of new legislation

# THANK YOU

