

Ontology-Enhanced AI – Plain English Platform Summary

“What it is, why it matters, and how it works”

What This Invention Really Does

Most AI today works by guessing patterns in data — but it doesn’t actually “understand” meaning. That’s why it can give wrong answers with confidence, overlook legal boundaries, or make ethical mistakes.

This invention changes that.

It gives AI a “semantic brain” — a framework where it knows what things mean, how concepts relate, and whether its answer follows the rules. That framework is called an **ontology** — think of it like a dictionary and rulebook combined.

The Big Idea: Make AI Think in Meaning, Not Just Math

Traditional AI thinks in numbers. Our system thinks in **concepts**:

- It knows what “privacy” means and what rules apply to it.
 - It understands how “risk,” “bias,” and “fairness” connect in real-world decisions.
 - It can **explain itself in plain English**, like a human expert would.
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What Makes It Different

Ordinary AI	Ontology-Enhanced AI
Gives answers	Gives explainable answers
Can be wrong & confident	Includes a trust score and risk flags
Breaks laws without knowing	Understands regulations (like GDPR, HIPAA, SEC)
Black-box decisions	Symbolic trace shows every step it took
Needs expensive retraining	Uses evolving knowledge graphs — no retraining required

Why It Matters

To view the full white paper or explore more:

[Contact Mark Starobinsky](#) – [\[LinkedIn\]](#)

Full system details available under NDA.

This platform is ideal for any field where AI must be:

- **Auditable** (can explain how it reached a decision)
- **Compliant** (follows specific laws or policies)
- **Trustworthy** (avoids bias, errors, or legal violations)

Examples include:

- A bank making lending decisions under SEC rules
 - A hospital using AI for diagnosis under HIPAA
 - A government agency explaining automated decisions under the EU AI Act
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What the Platform Actually Does (Simplified)

Core AI Engine

- Understands the **meaning** of inputs using structured knowledge
- Evolves its knowledge in real time
- Handles conflicting rules using an arbitration layer

Legal & Ethical Reasoning

- Knows which laws apply to each question (e.g. “Did this violate HIPAA?”)
- Scores every output for **trust**, **bias**, and **fairness**
- Gives **explanations** you can show to lawyers or regulators

Auditing & Risk Detection

- Detects when its own answers are drifting off-course
- Offers suggestions to fix itself, without retraining
- Provides side-by-side scoring across models

Ready for Enterprise

- Works in under **50 milliseconds**
 - Accepts plain text, URLs, or uploaded files
 - Shows trust and risk scores in a simple, visual dashboard
 - Can be integrated into any API or app
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Real Examples It Handles

- “Does this AI response comply with the EU AI Act?”
 - “What risk is involved in this health data summary?”
 - “Can I show this explanation to an auditor?”
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Summary

This invention is a **compliance-aware, trustworthy, and human-aligned** AI layer — one that not only answers, but explains **how** and **why**. It gives AI the ability to think in meaning, follow the rules, and **earn trust at scale**.

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