Concordia NDA+

Automated Document Intelligence for Legal Professionals

The Problem

Banks and law firms review thousands of NDAs annually as information recipients in commercial lending transactions. Each review requires experienced attorneys to manually identify gaps, evaluate compliance against institutional standards, and draft remediation language. This process is **time-intensive, inconsistent, and expensive**—consuming 2-4 hours per document while diverting senior legal talent from higher-value work.

The Solution

Concordia NDA+ combines **deterministic rules-based analysis** with **AI-powered enhancement** to deliver institutional-quality document review in minutes. The system encodes decades of legal expertise into structured YAML provision libraries, while Azure OpenAI GPT-4o provides semantic understanding and remediation synthesis.

Review Time	Provision Coverage	Detection Accuracy
4 hrs → 12 min	**43 Benchmarks**	**12/12 Precision**

How It Works

- **Load Document:** Attorney opens .docx file in the Concordia desktop application
- **Automated Analysis:** System scans against 43 provision benchmarks, identifying gaps, deviations, and review items
- **Attorney Decisions:** Interactive cards present each flagged provision with Accept / Modify / Flag options
- **AI Remediation:** GPT-4o generates context-aware redline language based on attorney decisions
- **Export:** Modified document with Track Changes ready for counterparty negotiation

Architecture

Concordia employs a three-layer hybrid architecture that balances deterministic precision with AI flexibility:

Layer 1	**Electron Desktop Application —** React UI with document viewer, provision cards, decision interface
Layer 2	**FastAPI Backend —** Python API orchestration, YAML loading, Azure OpenAI integration
Layer 3	**Analysis Engine —** 43 YAML provision benchmarks, rules engine, semantic analysis

Why Concordia

- **Hybrid Intelligence:** Deterministic rules ensure consistency; AI provides context-aware synthesis
- **Attorney Authority:** Every decision requires attorney approval—AI assists but never decides
- **Institutional Memory:** YAML provision libraries encode your firm's standards, not generic templates
- **Enterprise Ready:** Electron desktop with Azure OpenAI—same security posture as VS Code and Teams

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