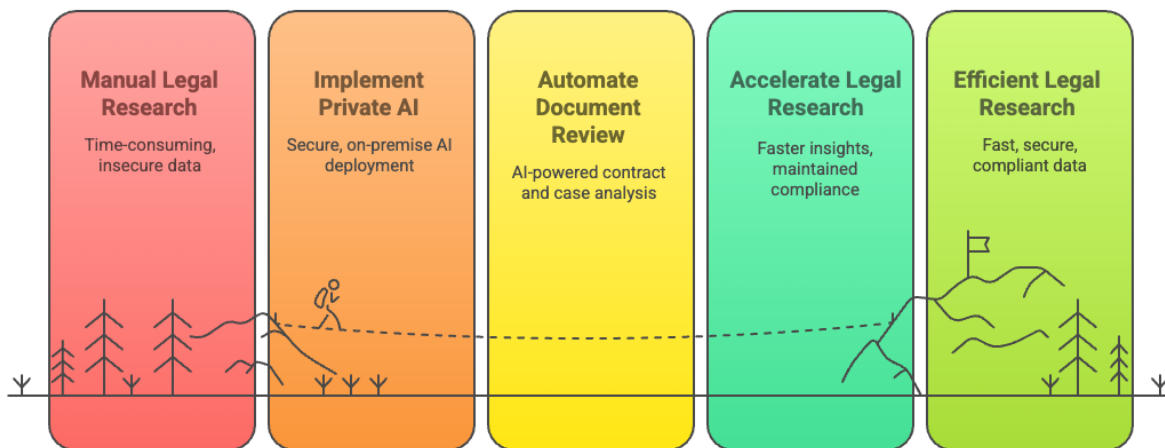


□ Case Study: Legal Assistant with Secure Private LLMs

□ Client Profile

A large corporate law firm specializing in financial, regulatory, and corporate litigation.

Transforming Legal Research with Secure AI



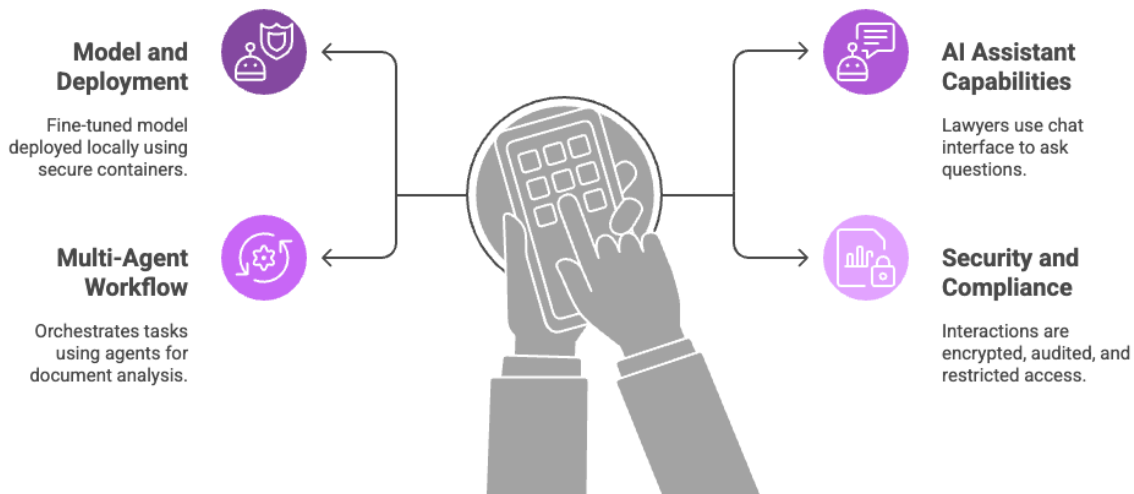
□ Business Challenge

The firm wanted to implement AI to enhance its **legal research** and **document drafting** workflows. However, strict **confidentiality and data privacy** regulations posed a major barrier:

- Public cloud-based AI tools were **not an option** due to client data sensitivity.
- Attorneys were spending **countless hours manually reviewing** contracts, case law, and legal memos.
- With increasing case load, the firm sought a way to **speed up legal research** while maintaining **compliance and security**.

□ Only ~30% of law firms have adopted AI, primarily for efficiency. This firm wanted to lead the curve—**without compromising client confidentiality**.

□ Solution Approach

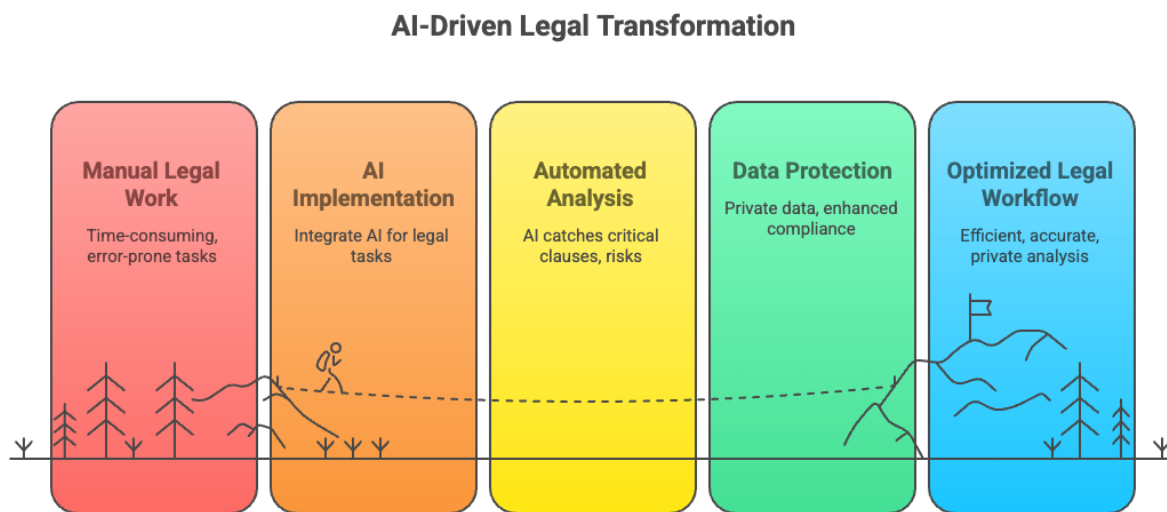


We developed a **secure, on-premises Legal AI Assistant** powered by a **fine-tuned private LLM**:

- **Model & Deployment:**
 - Used the open-source **Mistral 7B** model, fine-tuned on internal documents (case law, contracts, memos).
 - Deployed locally using **Ollama** and **Docker containers**—ensuring **zero data leaves the firm’s servers**.
 - Fully air-gapped and containerized for maximum security.
- **AI Assistant Capabilities:**
 - Lawyers interacted via a secure **chat interface** to ask questions like:
 - “Summarise the obligations in this contract.”
 - “Find relevant precedents for topic X.”
 - Answers are generated in **seconds** via the LLM.
- **Multi-Agent Workflow:**
 - Integrated with **Google Agent Development Kit (ADK)** to orchestrate intelligent tasks:
 - Agent 1: Fetches and filters documents from a secure database.
 - Agent 2: Uses the LLM to analyse and summarize content.
 - Connected to the firm’s **document management system (DMS)** for seamless access.
- **Security & Compliance:**

- All interactions are **encrypted, audited, and restricted** to authorized personnel.
 - Logs maintained for internal compliance tracking.
-

✓ Results & Benefits



□ Improved Efficiency

- Contract reviews and case research reduced from **hours to minutes**.
- First-draft generation of motions and contract markups was **~40% faster**.
- Over 6 months, the firm saved **200+ billable attorney hours**, enabling more case throughput.

□ Total Data Control

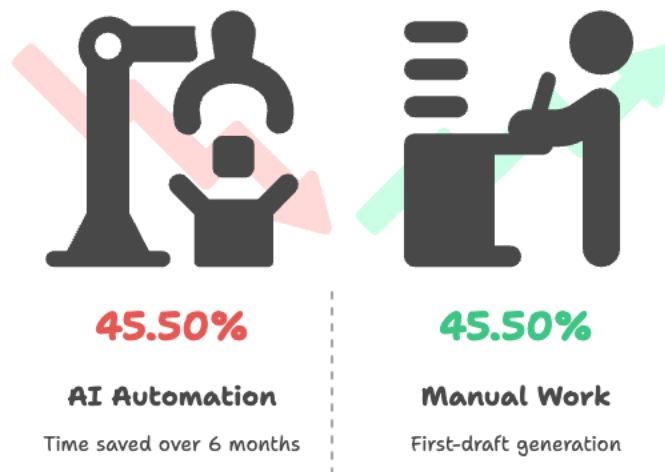
- Data remained **completely private**, with no reliance on third-party APIs or cloud infrastructure.
- Enhanced trust and compliance, especially with **financial and government clients**.

□ Higher Accuracy

- The AI caught **critical clauses and risk factors** missed by junior staff.
 - Enabled more **comprehensive legal analysis**, reducing exposure to litigation risks.
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□□ User Impact

Attorney Time Savings



- **Rapid Adoption:** Attorneys and paralegals quickly incorporated the AI into daily workflows.
- **Better Preparation:** Associates arrived at client meetings more informed and prepared.
- **Increased Confidence:**

“It’s like having a diligent virtual associate who works 24/7.” – Senior Partner

- **Focus on Strategy:** With AI handling research and summarization, lawyers focused more on client advisory, argument building, and strategic reviews.
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□ Future Outlook

Encouraged by the success of this deployment, the firm is now:

- Exploring **automated brief generation**, case timeline building, and deposition prep using the same framework.
- Planning secure extensions of the assistant to **mobile and voice-based interfaces** for court-side access.