Legal Document Change Analyzer - Technical Interview Task

Background

Law firms often need to review changes between contract versions to identify which modifications carry legal significance versus mere formatting updates. You've been asked to build a proof-of-concept system that can intelligently analyze and categorize these changes.

Your Task

Build a system that compares two versions of a legal document and intelligently categorizes the changes found.

Provided Materials

• Two versions of a Data Processing Agreement (provided as .pdf files)

Requirements

Change Detection

- Identify all changes between document versions
- Handle complex changes (multi-line modifications, moved sections, etc.)

Change Categorization

Classify each change into one of these categories:

- Critical (Legally Significant): Changes that materially affect rights, obligations, or legal interpretation
- Minor (Non-substantive): Clarifications, wording improvements, or administrative updates
- Formatting: Punctuation, capitalization, spacing, or other cosmetic changes

Impact Analysis

For critical changes, provide:

- Brief explanation of potential legal implications
- Which party (Data Controller/Processor) is most affected
- Severity rating (high/medium/low)

Output Format

Generate a structured JSON report containing required data.

Bonus Features (if time allows)

• Simple web interface for uploading and viewing results

- Side-by-side diff visualization
- Export functionality for legal teams

Technical Constraints

- Use any LLM API (OpenAI, Anthropic, Cohere, etc.)
- Include clear setup/deployment instructions
- Document your approach to handling edge cases
- Time limit: 3-4 hours max

Deliverables

- 1. Source code with dependencies listed
- 2. README with setup and usage instructions
- 3. Sample output from analyzing the provided documents
- 4. Brief explanation of your approach and any limitations

Interview Discussion Topics

Example topics to cover during discussion:

- How you'd extend this to handle other document types
- Strategies for improving accuracy
- How to handle documents in different languages
- Integration with existing legal workflows
- Testing strategies for legal correctness