

MVP Flow: AI-Powered Contract Drafting with Pinecone

Tech Stack

- **Backend:** FastAPI (contract generation API)
 - **Database:** Pinecone VDB (corpus of professional documents)
 - **Frontend:** Streamlit (MVP) → React (later production)
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Workflow

1. User Input (Project Details)

- User provides key project information: client name, project scope, timeline, deliverables, etc.
- Input captured via Streamlit UI.

2. Document Retrieval (from Pinecone)

- System queries Pinecone vector DB (pre-trained with professional contract/document corpus).
- Retrieves the most relevant base document structure.

3. AI Auto-Fill & Drafting

- Retrieved document acts as the template.
- AI fills user/project details into placeholders.
- Ensures proper formatting and professional tone.




4. Compliance & Risk Check

- AI runs checks for compliance with standards (GDPR, insurance norms, etc.).
- Flags missing or risky clauses.
- Provides suggestions for adjustments.

5. Plain-English Summary

- AI generates a concise summary for the user.
- Example: *"This contract establishes a service agreement with GDPR compliance, covering confidentiality and liability for 2 years."*

6. User Review & Iteration

- User reviews draft + summary in Streamlit.
- Options:
 -  Accept draft.
 -  Edit fields (regenerate document).
 -  Restart flow.

7. Final Document Export

- User can download the drafted contract as a Word/PDF.
- Document saved locally for MVP (no external integrations yet).

MVP Scope (Phase 1)

- FastAPI backend with endpoints for:
 - Project details input
 - Pinecone retrieval

- AI drafting
 - Compliance check
 - Summary generation
 - Streamlit UI for:
 - User form (project details)
 - Draft + summary display
 - Export button
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Future Extensions (Post-MVP)

- Replace Streamlit with React frontend.
- Add integrations (DocuSign, Drive, CRMs).
- Advanced compliance engine (multi-jurisdiction).
- Multi-document types (beyond NDA/insurance agreements).
- Dashboard with analytics (time saved, risk detection stats).