

# Apna Lawyer( Digital Layer)

## Apna lawyer – Understand before you sign.

An interactive AI-powered legal assistant that simplifies complex legal documents into clear, actionable guidance through a virtual avatar, while also connecting users to lawyers and legal communities.

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## Key Differentiator

Unlike traditional chatbots, this solution uses an **avatar-based conversational interface** with **text input + voice based input**, making legal help **intuitive, engaging, and accessible**.

It also extends beyond instant help by providing **lawyer discovery** and a **community hub for legal awareness**.

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## Core Features

### 1. Landing Page with Avatar



- Avatar greets user → personalized interaction.
- Users can select avatar design( initially there will be 2 designs).
- Supports **text chat** (record you voice & send or chat manually).






### 2. Document Upload & Analysis



- Upload **PDFs, Word docs, or images (OCR)**.
- AI extracts legal clauses, structures content.

### 3. Clause Simplification & Guidance

Each clause explained in **plain language** with:

-  **Benefits** (favorable terms).
-  **Risks** (potential downsides).





-  **Unfavorable Terms** (heavily one-sided conditions).
-  **Obligations & Deadlines** (actions the user must take).
-  **Comparison to Norms** (flagging unusual clauses vs industry standards).
-  **Severity Score** (numerical risk rating, e.g., 0–10).
-  **Suggested Actions** (what to clarify, negotiate, or double-check).

→ Example: “Clause 4 requires 6 months’ deposit ( 8/10 severity,  higher than average 2–3 months). Suggested action: negotiate for a smaller deposit.”

#### 4. Interactive Q&A

- Users ask in natural language:
  - “What happens if I break the lease early?”
  - “Is this penalty legal in India?”
- AI gives **document-specific, plain-language answers**.

#### 5. Lawyer Search Page

- Users can **find lawyers** based on:
  -  Location
  -  Specialization (corporate, property, consumer rights, criminal, etc.)
  -  Ratings / reviews
  -  Fees and consultation type (online/offline)
- AI can **redirect users** here if it cannot resolve their issue.

#### 6. Community Page

- Users can **join groups** based on their background/needs:

- 🏡 Farmers → land, subsidy, water laws.
- 🏠 Households → rental agreements, consumer rights.
- 🏢 Companies/Brands → IP, compliance, labor laws.
- Groups provide:
  - 📰 **Updates** on new laws, amendments, and policies.
  - 💬 **Discussions & FAQs.**
  - 📖 **Simplified resources & guides.**

## 7. Multilingual Support

- Phase 1: **English + Hindi.**
- Future: Expand to regional languages and global languages.

## 8. Human Assistance Integration

- If AI cannot handle complexity → recommends **nearest lawyer** (location-based).
- Gives an option to connect with lawyer with minimal fees through our platform.

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## Technology Stack (Google Cloud)

- **Frontend:** React + Web Speech API (voice input/output) + Avatar SDK (Ready Player Me / MediaPipe).
- **Backend:** Python
- **AI/ML:**
  - Vertex AI + Gemini → summarization, clause analysis, Q&A.
  - Document AI (OCR) → extract text from contracts.

- Translation API → multilingual support.
  - **Database**: Firestore for documents, profiles, community posts, and interactions.
  - **Privacy & Security**: Google **Data Loss Prevention API** for sensitive data.
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## User Flow

1. User lands → Avatar greets and offers language choice.
  2. User uploads document → AI analyzes clauses.
  3. Avatar explains results with **layered guidance** (✅, ⚠️, ❌, ⏳, 📊, 📈, 🔧).
  4. User interacts via **text Q&A + voice based input**.
  5. If AI finds complexity → redirects to **Lawyer Search Page**.
  6. User can also explore **Community Groups** for continuous legal updates.
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## Impact

- **Accessibility** → Everyday users finally understand legal documents.
  - **Trust** → Avatar + voice makes interaction natural, not intimidating.
  - **Inclusivity** → Hindi/English support now, scalable to more languages.
  - **Actionable Insight** → Guidance with scores, comparisons, and suggested actions.
  - **Safety Net** → Lawyer search + community ensures users get both professional and peer support.
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