





HackOrbit 2025

TEAM CLAUSEWISE

THEME & PROBLEM STATEMENT

Theme: FinTech Innovation

Problem: Hidden Risks in Financial Documents

The Problem:

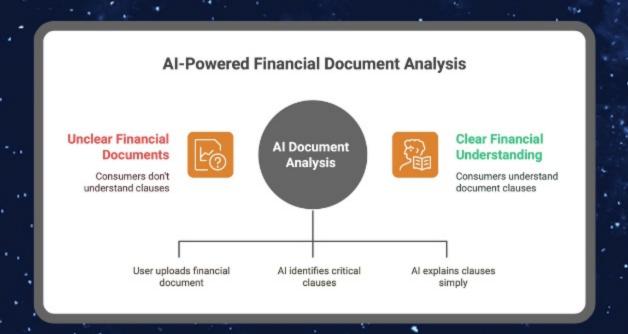
Millions of consumers sign financial documents, such as insurance policies, loans, and credit cards, without fully comprehending intricate clauses. This lack of financial literacy leads to unforeseen penalties, unfavorable terms, and financial losses.

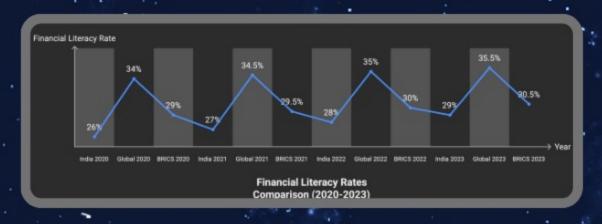
The Challenge: .

The accessibility of legal and financial jargon, poses a significant challenge for the average individual. Even digitally proficient users often lack the tools to extract valuable insights from complex documents.

Opportunity:

Develop an AI-powered platform that meticulously analyzes and elucidates critical, concealed clauses within real-world documents.





Despite global improvements, India's financial literacy remains below the curve. The gap ClauseWise AI aims to bridge.

PROPOSED SOLUTION

What It Is:

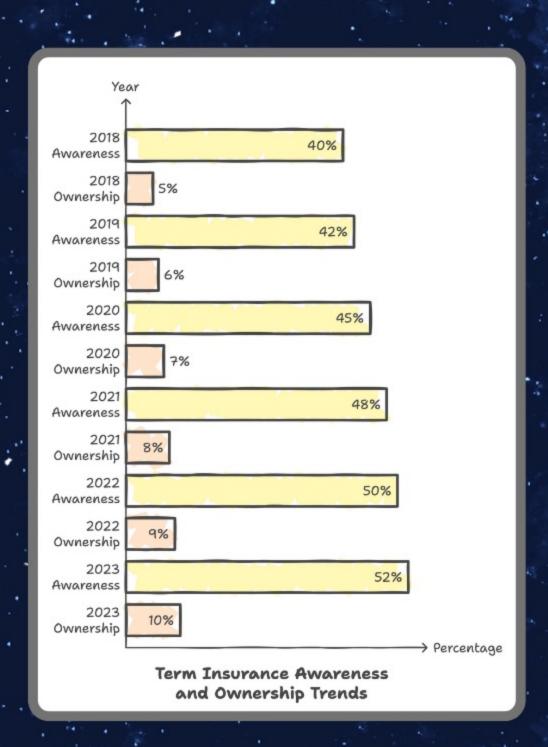
A smart document analysis platform that helps users understand and converse with their financial documents using AI.

Core Value Proposition:

- Detects hidden clauses and potential risks
- Generates executive summaries of documents
- Offers an interactive AI chat interface for document-based queries
- Teaches financial literacy with a gamified 30-day course
- Works with PDFs, DOCs, and images (OCR-powered)

Impact:

Empowers users to make informed financial decisions, avoid costly mistakes, and develop financial confidence.



FLOWCHART / DIAGRAM

The ClauseWise AI system follows a streamlined, end-to-end pipeline combining OCR, natural language processing, and AI for seamless financial document analysis:

Step-by-step Breakdown:

Document Upload:

• Users upload files in PDF, DOC, or image formats via drag-and-drop or click-to-browse. Files are validated for size and type.

Text Extraction & OCR:

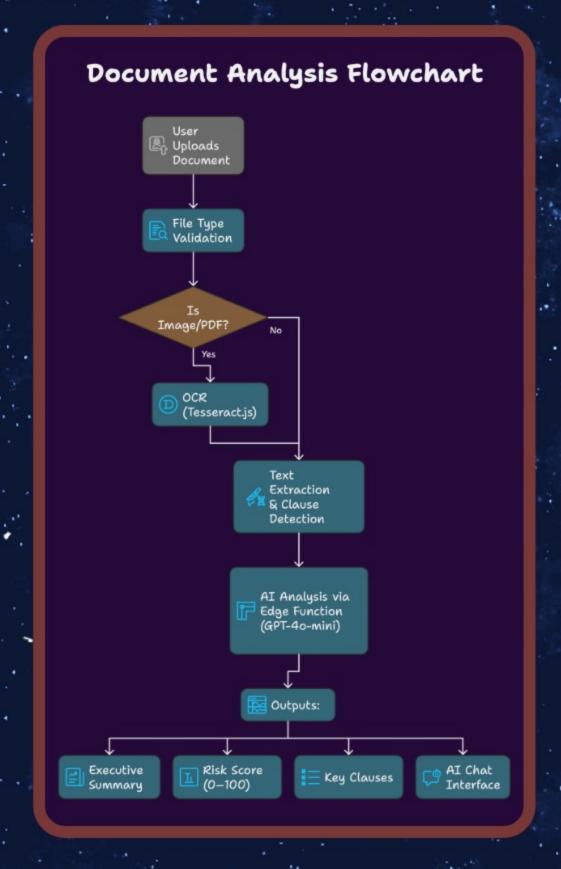
- For image-based documents, client-side OCR (Tesseract.js) extracts text with multi-language support.
- Confidence scoring ensures extraction quality.

Clause Detection & Structuring:

• Extracted text is processed using regular expressions and NLP to identify key sections: terms, fees, hidden clauses, and disclaimers.

AI-Powered Analysis:

- The text is sent to a Edge Function, which calls the GPT-40-mini model.
- AI returns a structured Result



FLOWCHART / DIAGRAM

Client-Side (Frontend):

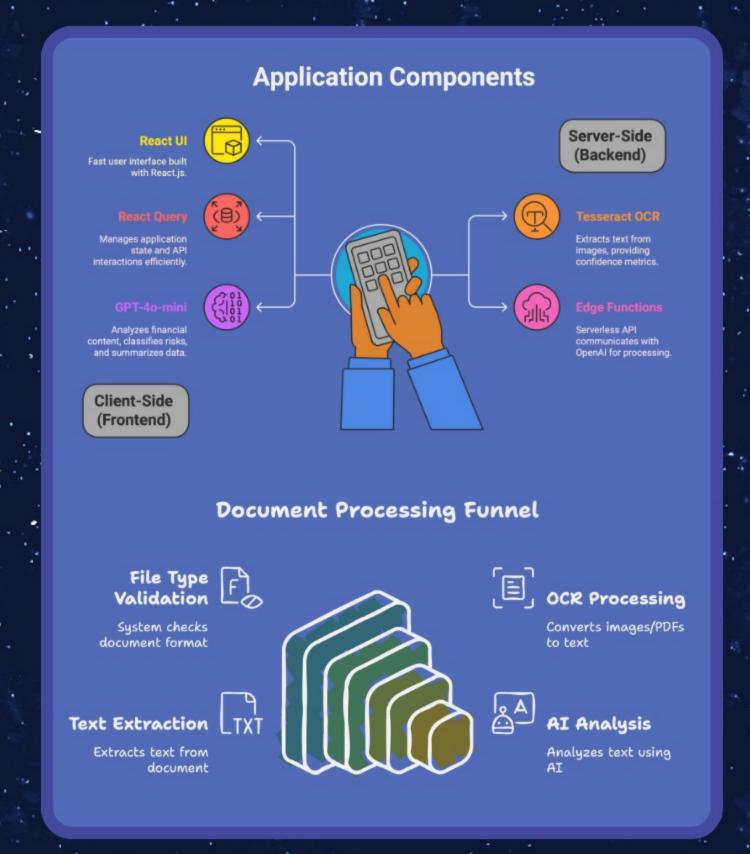
- React + Vite + Tailwind: Fast, modern UI
- Tesseract.js OCR: Extracts text from scanned images with confidence metrics
- React Query: Efficient state & API management

Server-Side (Backend):

- Edge Functions: Acts as serverless API to communicate with OpenAI
- GPT-40-mini: Trained prompts analyze financial content, classify risks, and output structured summaries

Data Output:

- JSON-based structured summary
- Risk score
- Highlighted clauses
- Chat-ready document context



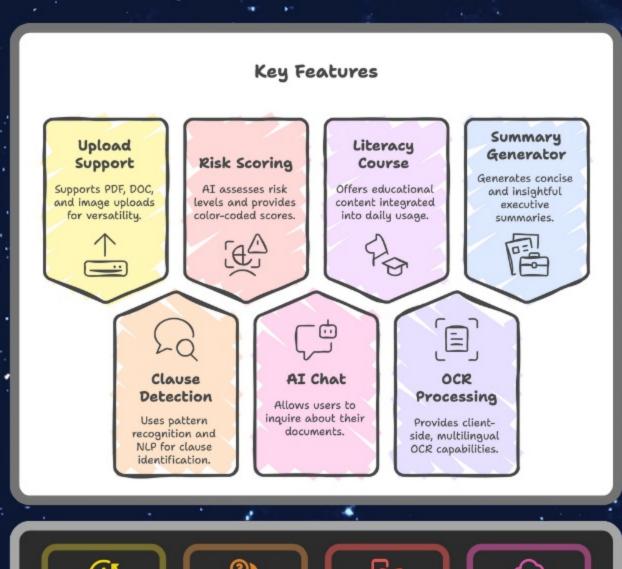
FEATURES AND NOVELTY

Key Features:

- Multi-Format Upload Support: PDF, DOC, and image uploads are supported.
- Clause Detection Engine: Employs pattern recognition and natural language processing (NLP) for accurate clause identification.
- Risk Scoring System: Utilizes artificial intelligence (AI) to assess risk levels and provide color-coded risk scores (Low, Medium, High).
- AI Chat Interface: Facilitates the interaction with users to inquire about their documents.
- 30-Day Financial Literacy Course: Offers educational content that can be integrated into daily usage.
- OCR Processing: Provides client-side, multilingual OCR capabilities.
- Executive Summary Generator: Generates concise and insightful executive summaries.

Novelty:

- Integrates OCR, NLP, and LLM into a unified workflow.
- User-centric, explainable AI design principles.
- Educational layer seamlessly integrated into utility applications.
- Serverless architecture with high-performance Edge Functions.





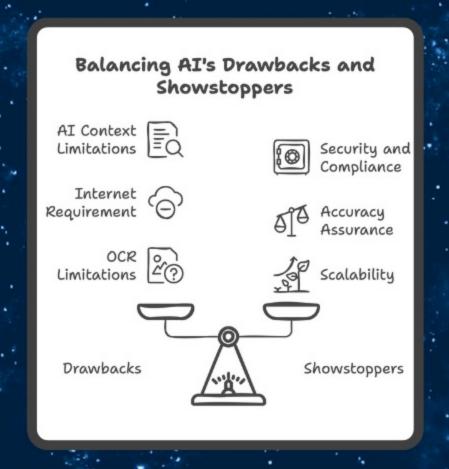
DRAWBACK AND SHOWSTOPPERS

Drawbacks / Limitations:

- AI Context Limitations: GPT-40-mini may truncate lengthy documents during analysis.
- Internet Requirement: Cloud-based functions necessitate internet connectivity.
- OCR Limitations: Inadequate image quality compromises accuracy.
- Privacy Concerns: Users may exhibit reluctance to upload sensitive documents.

Showstoppers:

- Security and Compliance: Requires end-to-end encryption and user trust.
- Accuracy Assurance: AI must refrain from generating misleading summaries or omitting crucial clauses.
- Scalability: Serverless infrastructure must efficiently manage large document processing at scale.



Balancing innovation with limitations to build a scalable, secure AI solution.

TEAM CLAUSEWISE

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Information

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