

Hackathon 2025: Fall in love with DeepSeek

Contract Lifecycle Management System

Team Innovators

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The Pain Points of Traditional Contract Management



Lack of Visibility

Difficulty tracking contract status and key dates.



Compliance Risks

Increased risk of non-compliance and legal issues.



Manual Processes

Time-consuming manual entry and approval workflows.



Objective

- Leverage DeepSeek AI for advanced contract analysis.
- Automate key processes like clause extraction, named entity recognition (NER), clause generation, and summarization.

Why It Matters:

- Contract management is time-consuming and prone to errors.
- This system increases efficiency and ensures better compliance.

Key Features

1

Clause Extraction

2

Detect NER (Named
Entity Recognition)

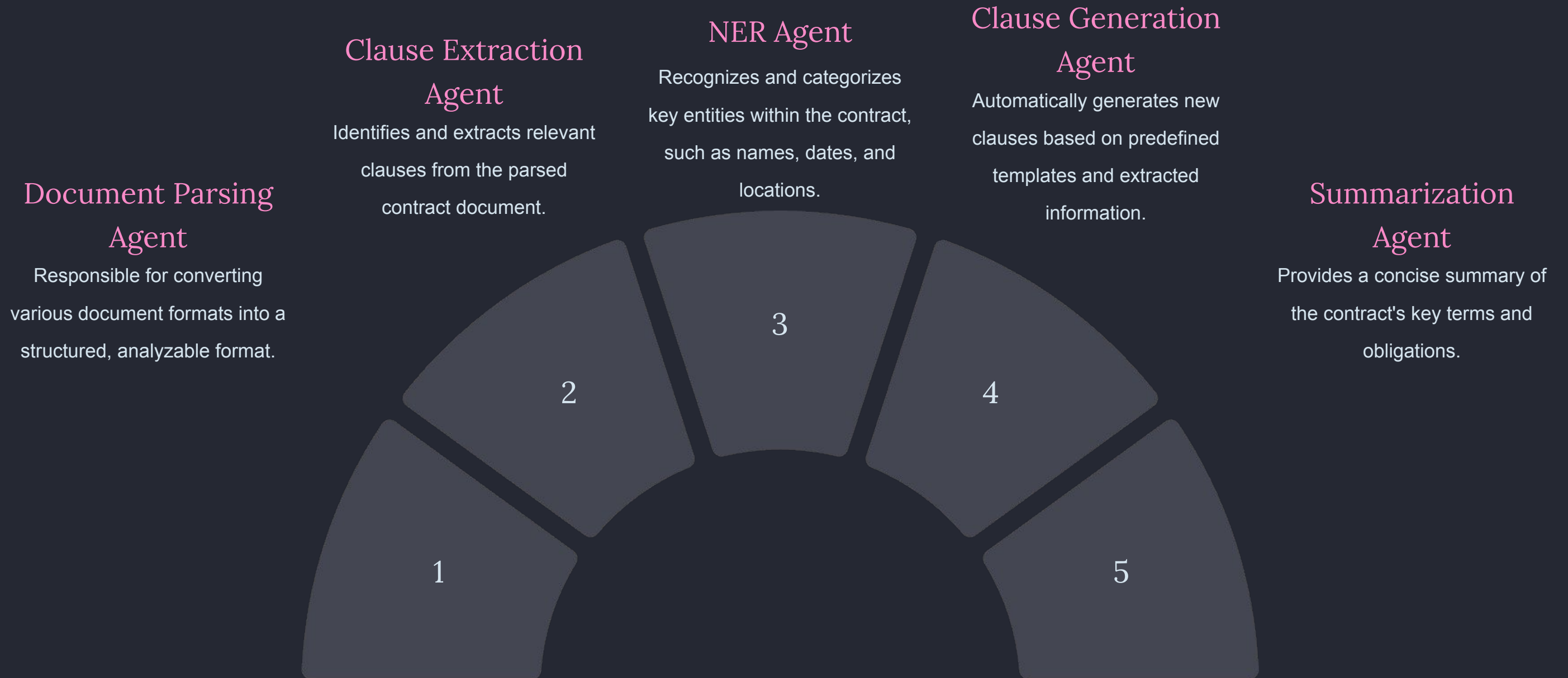
3

Clause Generation

4

Summarization

Agentic Workflow



Tools & Technologies

Agno
Agentic framework for structured
outputs and managing agents.

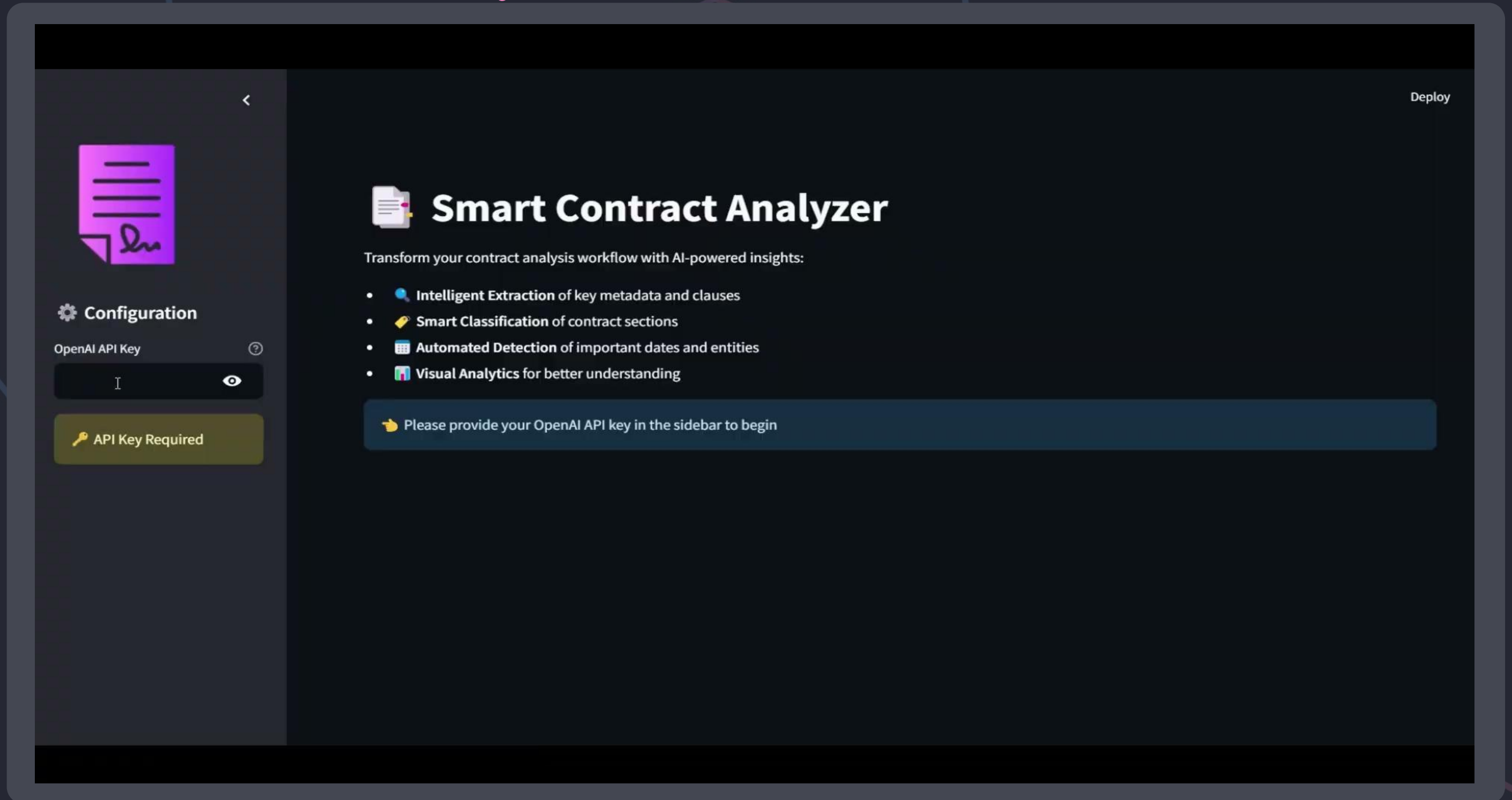
Streamlit Charts
Data visualization



DeepSeek
Core tool for clause extraction, NER,
clause generation, and
summarization.

Streamlit
User interface for interacting with
agents and managing workflows.

System Demo



Team & Roles

John

Team Lead & Workflow
Designer

Eman

UI Integration Lead

Maryam

Data Preparation &
Curation Lead

Cynthia

Data Visualization
Specialist

Andreas

Core Prompt Engineer

Challenges & Solutions

Challenges

- Token size limitations for large contracts.
- Ensuring consistent structured output across different contract types.

Solutions

- Document chunking for handling large contracts.
- Collaboration across roles to refine data format and visualizations.

Future Roadmap: Expanding Our Vision

1

Support Multiple Languages

2

Add a classification agent for more dynamic, structured outputs

3

Expand the system to support integrations with contract management platforms.