

Contract Analytics leveraging Generative Al (Multiple companies in Private Equity Firm Portfolio)

Developed a Contract Analytics tool leveraging OpenAI GPT models to extract key insights and clauses, offering an intuitive and user-friendly interface to query directly on the contractual repository. This substantially reduces the time and effort spent by legal professionals on contract scrutiny, enhancing efficiency and overall productivity

Private Equity first needs to build a OpenAI based contract analytics tool

Picture this...

You're looking to develop a contract analytics tool by leveraging OpenAI GPT models, capable of analyzing contracts and enabling users to have interactive conversations based on the information present in the contracts. Currently, your portfolio companies deal with a large variety of customer contracts and price variations and the sales, finance and legal teams spend substantial amount of time in reviewing and understanding key themes, risks and deriving insights from them.

You turn to Accordion.

We partner with your team to develop a contract analytics tool leveraging OpenAI GPT models to extract key insights and clauses, offering an intuitive and user-friendly, including:

- 1) Designing and developing an intuitive and user-friendly interface allowing direct queries on key insights and clauses on ~1500 complex, multi-page contractual documents
- 2) Implementing OCR functionality leveraging Azure Document intelligence ensuring high-precision data extraction from scanned contracts
- 3) Deploying the platform securely on client's Azure environment, with ring-fencing measures implemented to ensure data integrity and confidentiality
- 4) Enhancing response accuracy by optimizing context window, chunking size and Dynamic Top-K Tuning based RAG methodology
- 5) Implementing various features to engage users of the platform including searchable chat history, custom instructions, prompt guides, user feedback (like/dislike) and functionality to review response

Your value is enhanced.

- You have a contract analytics tool resulting in potential savings of ~\$10M by reducing time spent on manual data interpretation, validation and scrutiny of complex clauses and strengthening data security with ring-fencing measures
- You have achieved ~95% accuracy for contract related queries, streamlining decision making by providing reliable revenue and churn forecasting
- You have also safely harnessed the power of generative AI in the daily workflows without concerns of security and data privacy

CONTRACT ANALYTICS LEVERAGING GENERATIVE AI

KEY RESULT

- ~\$10M potential saving
- ~965% accuracy for queries

VALUE LEVERS PULLED

- App development
- Document chunking optimization
- Prompt engineering
- Retrieval Augmented Generation
- Data Extraction using OCR techniques

CONTRACT ANALYTICS TOOL

3

Implementing Generative AI chatbot for contract analytics

Situation

- Client's portfolio companies deal with a large variety of customer contracts and price variations. The Sales, Finance and Legal teams spend substantial amount of time in reviewing and understanding key themes, risks and deriving insights from the contracts
- Partnered with the client to develop a contract analytics tool by leveraging OpenAl GPT models, capable of analyzing contracts and enabling users to have interactive conversations based on the information present in the contracts.

Accordion Value Add

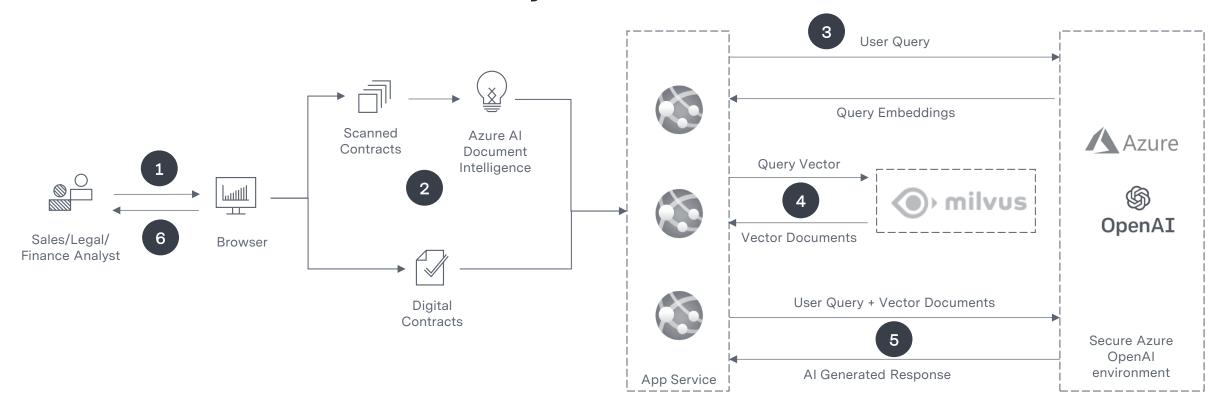
- Designed and developed an intuitive and user-friendly interface allowing direct queries on key insights and clauses on ~1500 complex, multi-page contractual documents
- Implemented OCR functionality leveraging Azure Document intelligence ensuring high-precision data extraction from scanned contracts
- Deployed the platform securely on client's Azure environment, with ring-fencing measures implemented to ensure data integrity and confidentiality
- Enhanced response accuracy by optimizing context window, chunking size and Dynamic Top-K Tuning based RAG methodology
- Implemented various features to engage users of the platform including searchable chat history, custom instructions, prompt guides, user feedback (like/dislike) and functionality to review response

Impact

- Contract Analytics tool resulted in potential savings of ~\$10M by reducing time spent on manual data interpretation, validation and scrutiny of complex clauses and strengthening data security with ring-fencing measures
- Achieved ~95% accuracy for contract related queries, streamlining decision making by providing reliable revenue and churn forecasting
- Enabled the organization to safely harness the power of generative AI in their daily workflows without concerns of security and data privacy

ΔCCORDION © 2024 Accordion CONFIDENTIAL

Information flow - Contract analytics solution



- Legal Analyst uploads contracts and send queries related to contracts for information retrieval into the web browser
- Uploaded **scanned contracts** are sent to Azure Al Document Intelligence for text extraction
- Query is sent to **Azure OpenAI** where they are vectorized based on LLM embeddings

- Vectorized query is passed to Milvus DB for vector search and returns relevant documents
- Vectorized query along with documents are then sent to Azure OpenAl for generating response
- Al generated response with the required information is returned to the user on the browser



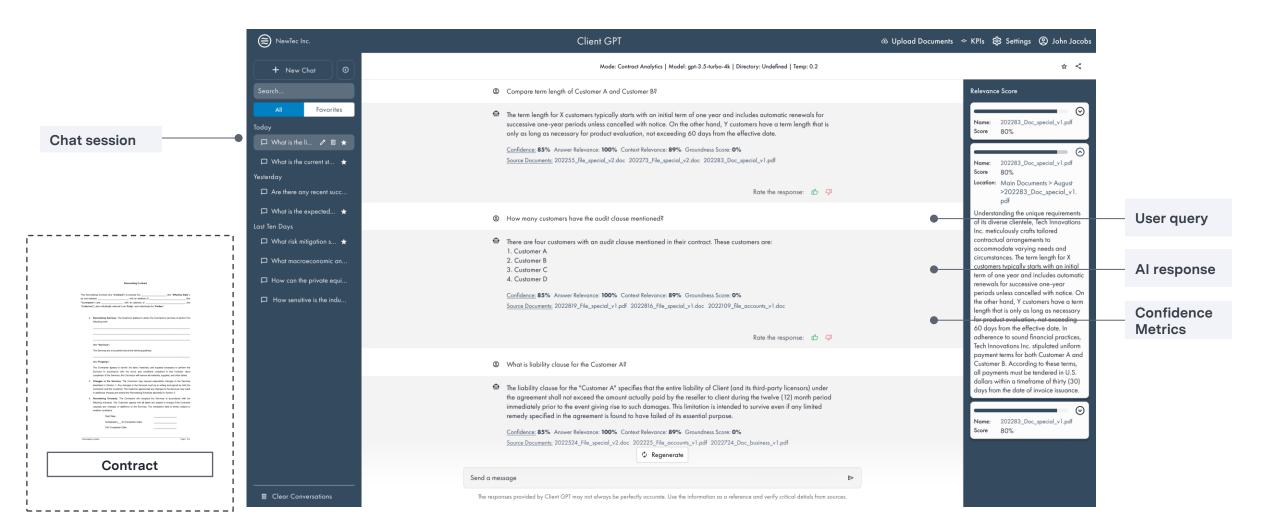
5

Sample queries & Al generated response

USER ASKS QUESTION	GEN-AI GENERATED RESPONSE
Does the renewal option for Company A specify that they can reduce the number of units in subsequent subscription?	✓ Yes, the renewal option for Company A does specify that they can renew the subscription for any number of units of the Licensor Software set forth in the Order Form for an additional annual Subscription Term.
 Does the renewal option for Company A specify that they can cut down on number of units from the current subscription while renewing their subscription at the end of renewal term? 	✓ Yes, Company A has the option to renew the subscription for any number of units of the Licensor Software set forth in the Order Form for an additional annual Subscription Term, regardless of the number of Named Users deployed prior to the renewal.
 What are the charges if Company B wants to renew their subscription with additional number of units at the end of subscription term? 	✓ If Company B wants to renew their subscription with additional number of units at the end of the subscription term, the annual Subscription Fee for each such renewal will be the result of multiplying (i) the Annual Renewal Fee per Unit set forth in Exhibit A of this Order Form for the Licensor Software being renewed by (ii) the corresponding Number of Units. The Annual Renewal Fee per Unit will increase by 2% per year over the prior year's Annual Renewal Fee per Unit regardless of the Number of Units renewed.
Does the renewal option for Company B specify that they can cut down on number of units from the current subscription while renewing their subscription at the end of renewal term	✓ Yes, Company B has the option to renew the subscription for any number of units of the Licensor Software set forth in the order form for up to 3 additional and consecutive annual Subscription Terms. If Veritas elects to renew a number of units of Licensor Software less than the number of units of Licensor Software set forth in Section 1 of the order form, then the annual renewal Subscription fee will be reduced.
• is there an automatic renewal of cloud services for Company B?	✓ No, there is no automatic renewal of cloud services for Company B. Following the end of the initial Term for the Subscription Software and Cloud Service, the Term will not renew unless renewed or extended by agreement in writing between the parties.

ΔCCORDION © 2024 Accordion CONFIDENTIAL

Contract analytics: Comparison & research questions



ACCORDION © 2024 Accordion CONFIDENTIAL

Contract analytics : Deep dive into clauses

