

Trader/relationship manager dashboard

Business context: Investment decisions can be intricate and lengthy



Varied sources

Traders and relationship managers utilize multiple resources such as SEC filings, news services, financial databases, and analyst reports to determine market trends and competitive dynamics

We use Alphabet's SEC files to extract critical information about company performance.



Complexity

PaLM 2

Analyzing financial health, assessing management performance, identifying red flags, future plans, strategies, and competitive analysis can be very complex



Time consuming

Spend multiple days doing topic research before client meetings

What makes processing SEC files difficult?

Unstructured data:

SEC filings contain mostly unstructured text, which requires advanced NLP techniques to extract, interpret, and standardize meaningful information that could influence stock prices.



Linguistic complexity:

Filled with legal and financial jargon. Extracting insights from this specialized language and accounting for the context requires sophisticated NLP models beyond keyword extraction or sentiment analysis.

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Temporal dynamics:

Temporal variability and aligning it with stock price movements contributes to technical complexity.

We use Google Generative AI, VertexAI, and PaLM 2 LLM to solve technical challenges



Interpretation: Transform SEC filings into structured data, interpreting complex legal and financial terminology.



Contextual understanding: Semantic understanding of business narratives and risk factors influencing stock prices.



Temporal analysis: Capture patterns aligned with stock price movements for predictive modeling.

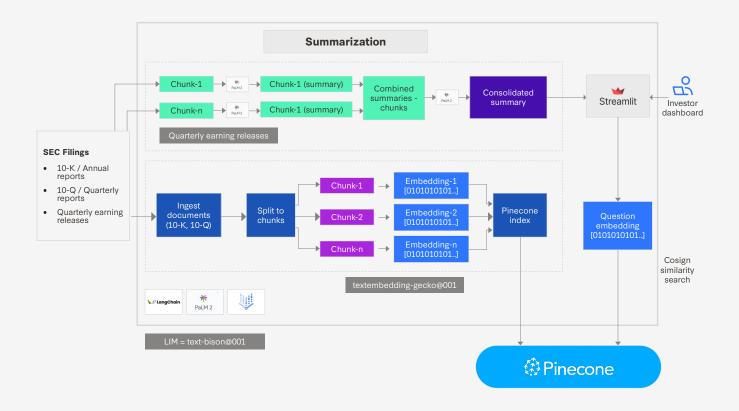
Trader/relationship manager dashboard: technical overview

Our generative AI solution based on Google's Generative AI Capabilities is expertly designed to distill critical insights for Traders and relationship managers, enhancing decision-making and client engagement

- Delivering an extensive summary of various SEC filings, selectively extracting the most pertinent data and information for precise interpretation.
- The output is subsequently utilized to create a comprehensive dashboard.
- Enabling semantic search and interactive chat functionality on unstructured text and tabular data within SEC filings, enhancing data accessibility and usability.

Solution architecture – demo tech stack

- Google VertexAl and PaLM2 LLM
- LangChain
- Pinecone Vector Store
- Streamlit for Web UI



About Virtusa

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