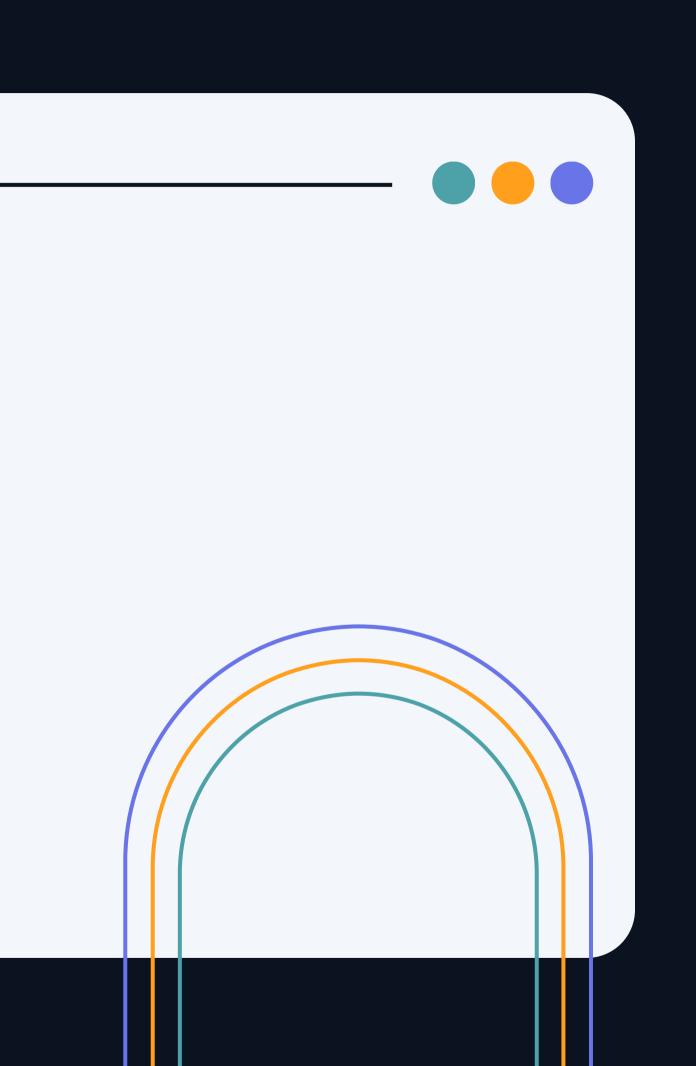
StockSage AI

A Smart Financial Advisor

LabLab.AI / Google Vertex AI Hackathon



Problem #1

Financial Expertise, a Barrier?

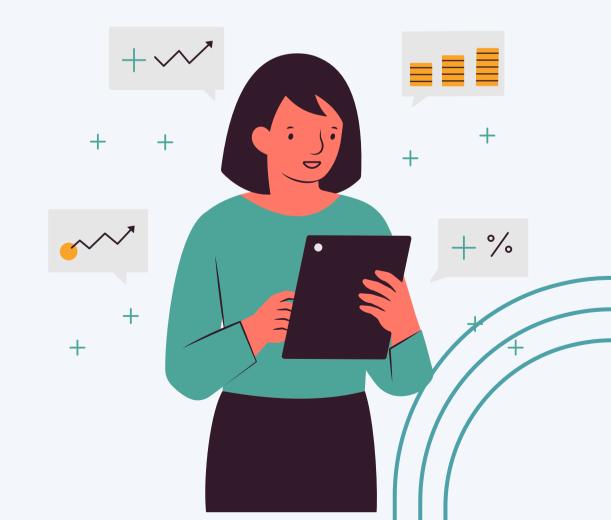
Investors lack a personalized investment resource



Problem #2

Widespread MisInformation?

Stock Market Navigation is Complex and Time-Consuming



Problem #3



Existing Financial Al Services?

Expensive, Inefficient, Prone to Hallucinations.





StockSage Al

- Your Smart Al Financial Assistant -



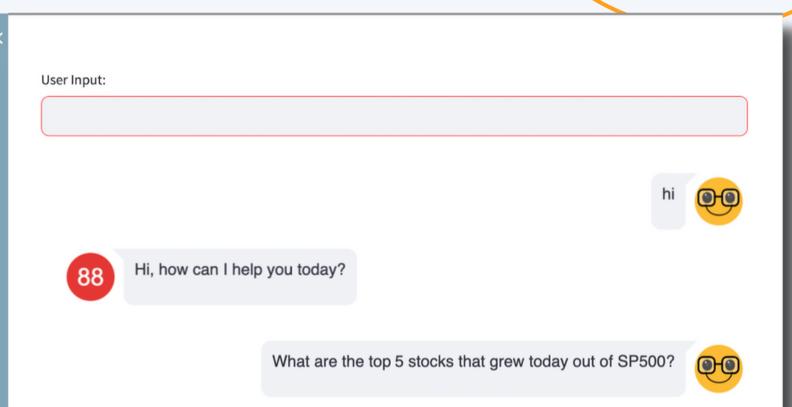




Welcome to StockSage AI! We're here to simplify your financial journey with personalized, real-time advice and data visualizations. Let's make informed financial decisions together!

Choose the format of stock prices

- 🗿 Graphs 📈
- 🔵 Forms 📝
- 🔵 Both 📁





Based on the latest data, the top 5 stocks that showed growth today from the S&P 500 index were Advanced Micro Devices Inc. (AMD), NVIDIA Corporation (NVDA), Etsy Inc. (ETSY), Zebra Technologies Corporation (ZBRA), and Twilio Inc. (TWLO). These companies have demonstrated notable growth, and I can provide more details on each company's performance if you'd like.

Chat Interface

Users can ask personalized queries, receive unique responses



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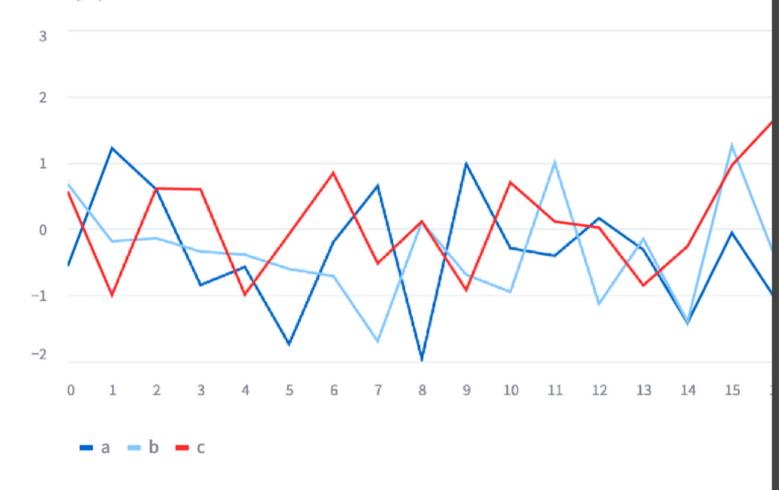
Choose the format of stock prices

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- 🔵 Both 📁

Second Se

'An investment in knowledge pays the best interest.' — Benjamin Franklin

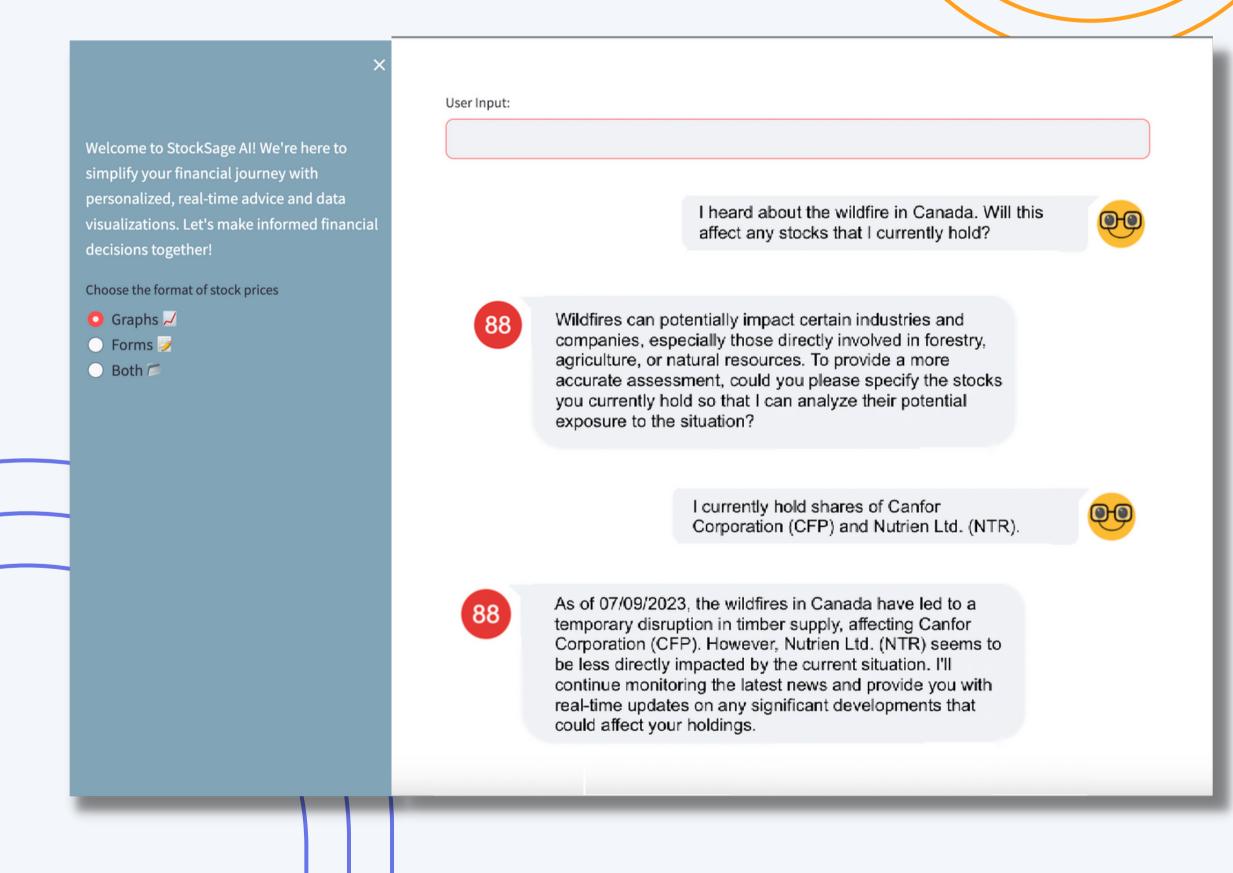
Ask any question related to stock.



Dynamic Visuals

Colorful Visualizations in Graph, Table formats





Real-Time Updates

Scrapes reliable news sources to provide up-to-date info



	500	500	500			[0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0	
	4	4		ABMD	None	[0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0	
	3	3	3			[0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0	
	2	2	2				
	1	1	1			[0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0	
	0	0	0			[0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0	
	Unna	amed: 0.1 Un	named: 0	Symbol	news	News_embedding	
<pre>In [56]: Dut[56]:</pre>	dI						
m (E6)-	df						
[n [55]:	<pre>import pandas as pd df = pd.read_csv("simple_final_data.csv")</pre>						
	<pre># Insert the record into the collection collection.insert_one(record)</pre>						
In [4]:	<pre># Write stock info to db def store_stock_info(symbol, name, price, news_embedding, collection=collection): record = {"symbol": symbol, "name": name, "price": price, "embedding": news_embedding}</pre>						
	# get te def text mode embe for	ext_embedding embedding el = TextEr eddings = r embedding	<pre>embedding bedding(message): TextEmbeddingModel.from_pretrained("textembedding-gecko@001") ngs = model.get_embeddings([message]) edding in embeddings: tor = embedding.values</pre>				
In [2]:	<pre>import vertexai from vertexai.preview.language_models import TextEmbeddingModel</pre>						
	0						
	<pre>doc_count = collection.count_documents({}) print(doc_count)</pre>						
	<pre>server_api=ServerApi('1')) db = client['simple_db'] collection = db['simple_col'] # collection.drop() # collection = db['testCol']</pre>						
			tls0			eyFile='X509-cert-8082716613236110284.pem',	
		ongodb+sr MongoClie	ent(uri,	,	xcyr4	x.mongodb.net/?authSource=%24external&authMechanism=MONGODB-X509&retryWrites=true&	
	from pymongo import MongoClient from pymongo.server_api import ServerApi						

Optimized Searching

Combines Google Vertex AI with MongoDB Vector Search to ensure accurate results



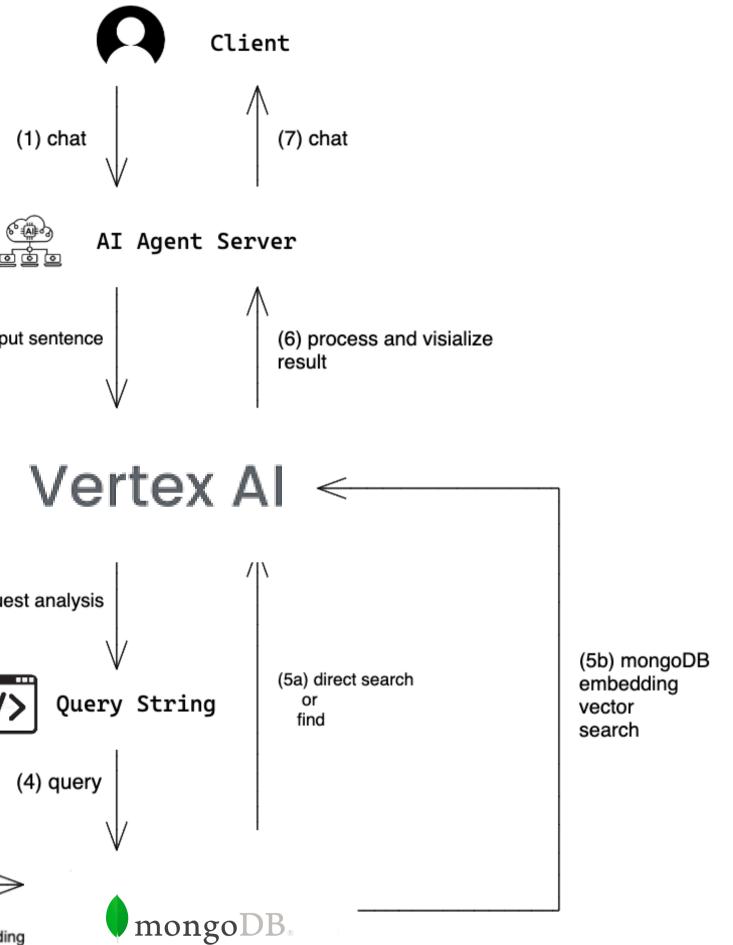


live demo

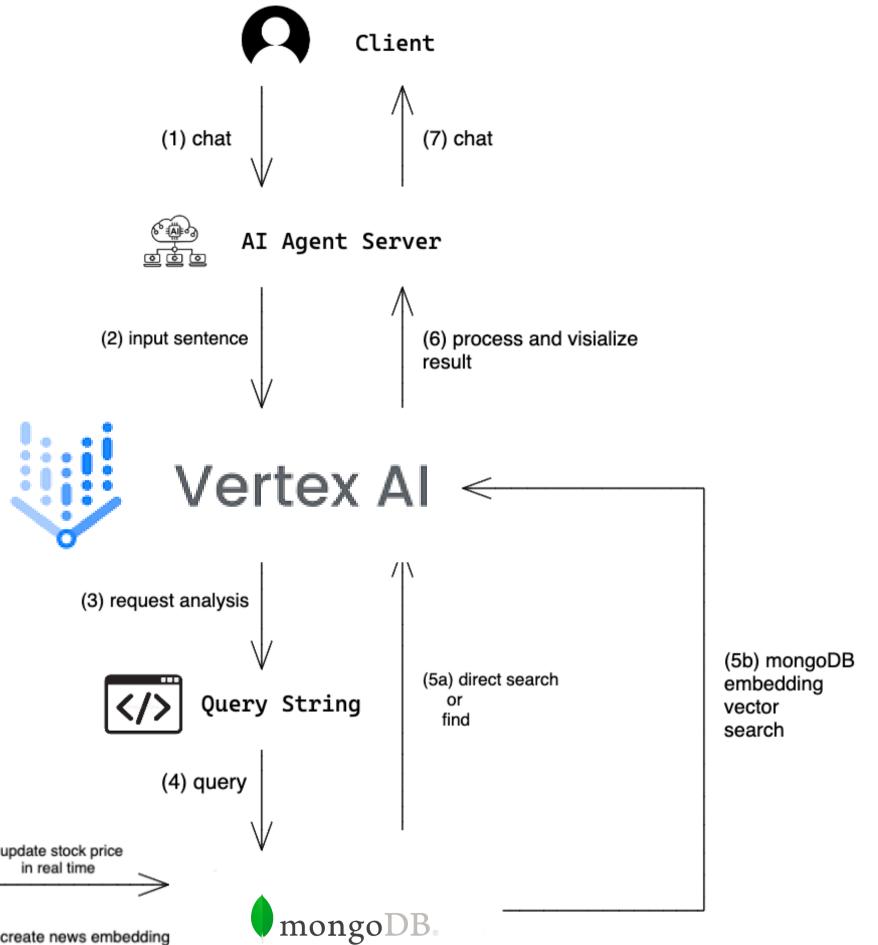
watch us walk through a conversation with StockSage Al

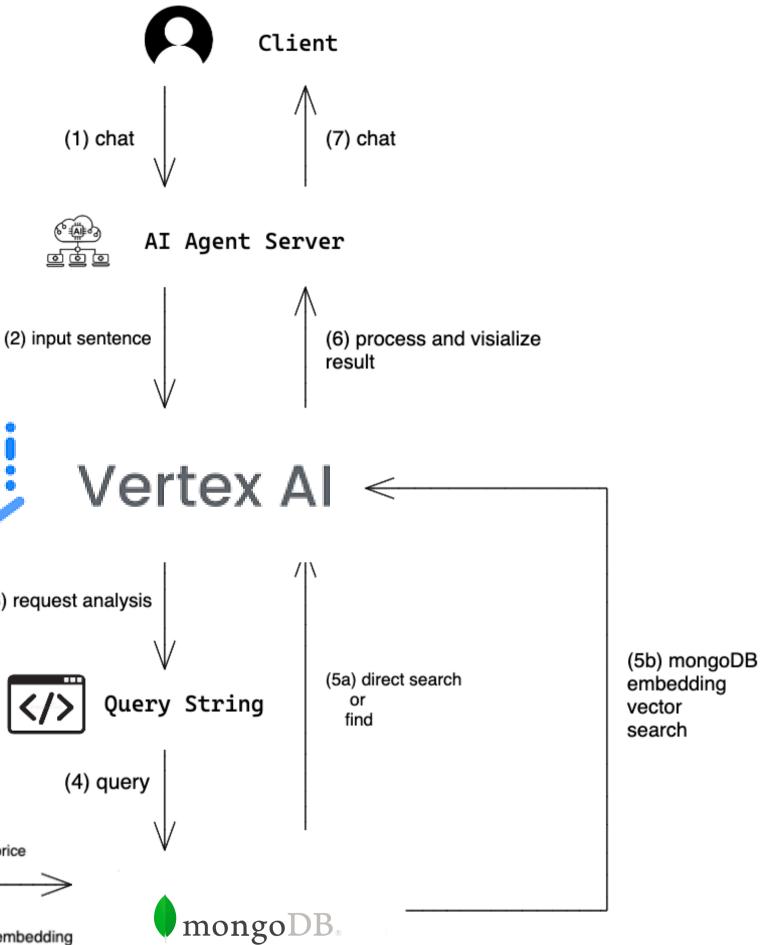


Project Architecture



A Breakdown of Tools/Frameworks





update stock price

Information

Source

create news embedding in real time

1. Diversified Chat Services:

For users with varying financial backgrounds

2. Cryptocurrency Integration:

Incorporate cryptocurrency data, trends into chatbot

Next Steps

3. Corporate Collaborations

partner with banks, investment firms as a value-addedservice to their customers

Thank You!

Try StockSage AI Today

