

Innovating Fintech with GPT-4 API

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Agenda

Topics Covered

- > Understanding GPT-4 API
- > Application Prototypes
- > Limitations and Future Possibilities
- > Q&A

Imagine a world where
financial analysis is not
limited by human speed
and accuracy.
How close are we to this
reality?



The background is a solid light blue color. It features several large, overlapping, semi-transparent shapes in a slightly darker shade of blue. These shapes are separated by thin, white, wavy lines that create a sense of movement and depth. The overall aesthetic is clean and modern.

**With the GPT-4 API,
we're closer than ever.**

What is GPT-4 API?

Generative Pre-trained Transformer 4 (GPT-4)

GPT-4 is a multimodal large language model created by OpenAI, and the fourth in its series of GPT foundation models.

It was initially released on March 14, 2023, and has been made publicly available via the paid chatbot product ChatGPT Plus, and via OpenAI's API.

Model: GPT-4 With Vision

Ability to understand images, in addition to all other GPT-4 Turbo capabilities.

>> Most suitable for our goal of making an application that is capable of understanding and interpreting stock images, this model is the most suitable compared to all other GPT4 models.

Prompt Engineering
is the most critical in
accurately operating
the API

What is Prompt Engineering?



Definition: Crafting specific and structured questions or commands to effectively guide AI responses.

Limitation: OpenAI's use-case policy restricts GPT-4 from offering specific financial, investment, or legal advice

Prompt Engineering Example

"You are a highly knowledgeable financial analyst
equipped with a risk assessment skillset."

"Your task is to examine the {chart_name} stock chart
image in detail."

"Provide a comprehensive and accurate explanation of
what the chart depicts."

"Highlight key elements and their significance in terms of
stock price movement, trends, volume, and potential market
signals."



Prompt Engineering Example

"Based on the analysis, offer investment advice tailored to risk-averse, risk-loving, and risk-neutral investors."

"Clearly indicate whether each type of investor should consider investing in this stock, providing reasons for your recommendations."

"Present your analysis and advice in clear, well-structured markdown format, **using relevant financial terminology.** "

"Assume the reader has a basic understanding of stock market concepts."

"Additionally, create a detailed image caption in bold, **summarizing** the investment advice."

Stock Price Analyst: **GPT-4** **with Vision** 🧐🧐

Upload an image of a stock chart



Drag and drop file here

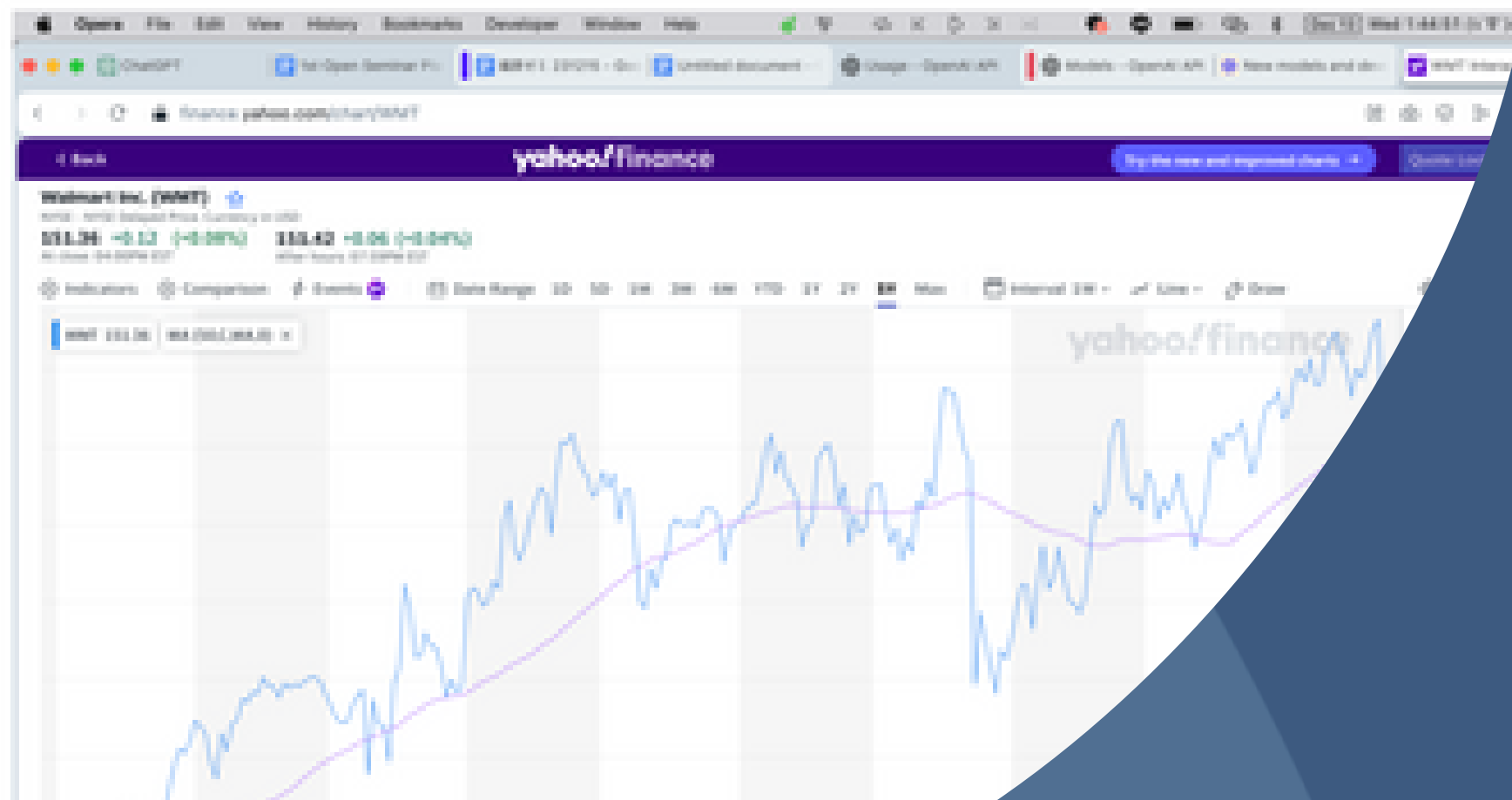
Limit 32MB per file • JPG, PNG, JPEG

Bro



1.png 0.7MB

Image



Single Stock Analysis

Analyze individual stock charts,
and suggest investment actions based
on three risk appetites

Comparative Stock Analysis

Additional to the actions the app performs on each individual charts, perform a comparative analysis

Comparative Stock Price Analysis

GPT-4 Turbo with Vision 🧐🧐

Upload the first stock chart image



Drag and drop file here

Limit 32MB per file • JPG, PNG, JPEG



1.png 0.7MB

Upload the second stock chart image



Drag and drop file here

Limit 32MB per file • JPG, PNG, JPEG

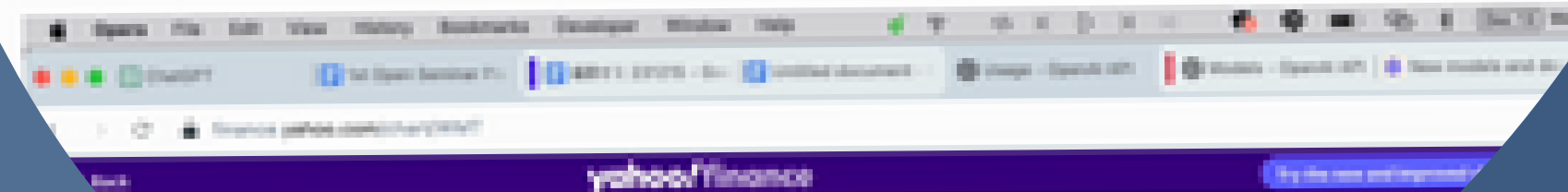


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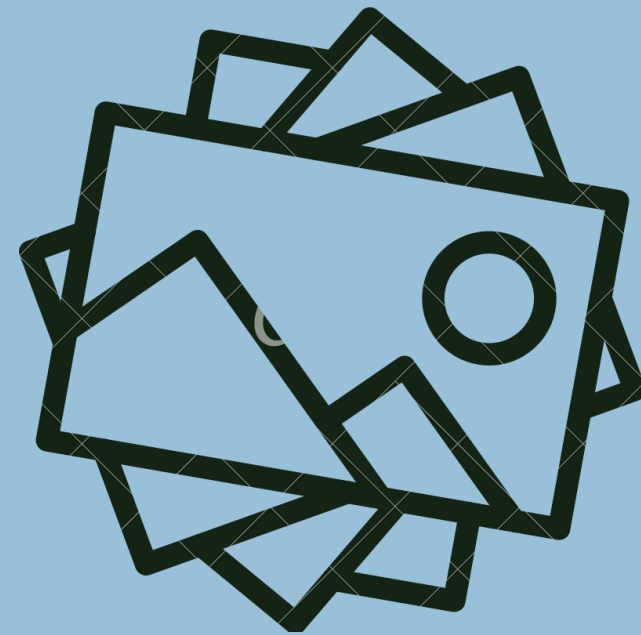


Add details about the stock charts

Analyze and Compare the Stock Charts



Future Possibilities



Multiple Image Analysis

More than two images
analyzed simultaneously



Assumption- Based Analysis

Use AI to draw numerical
figures from images



Optimal Portfolio

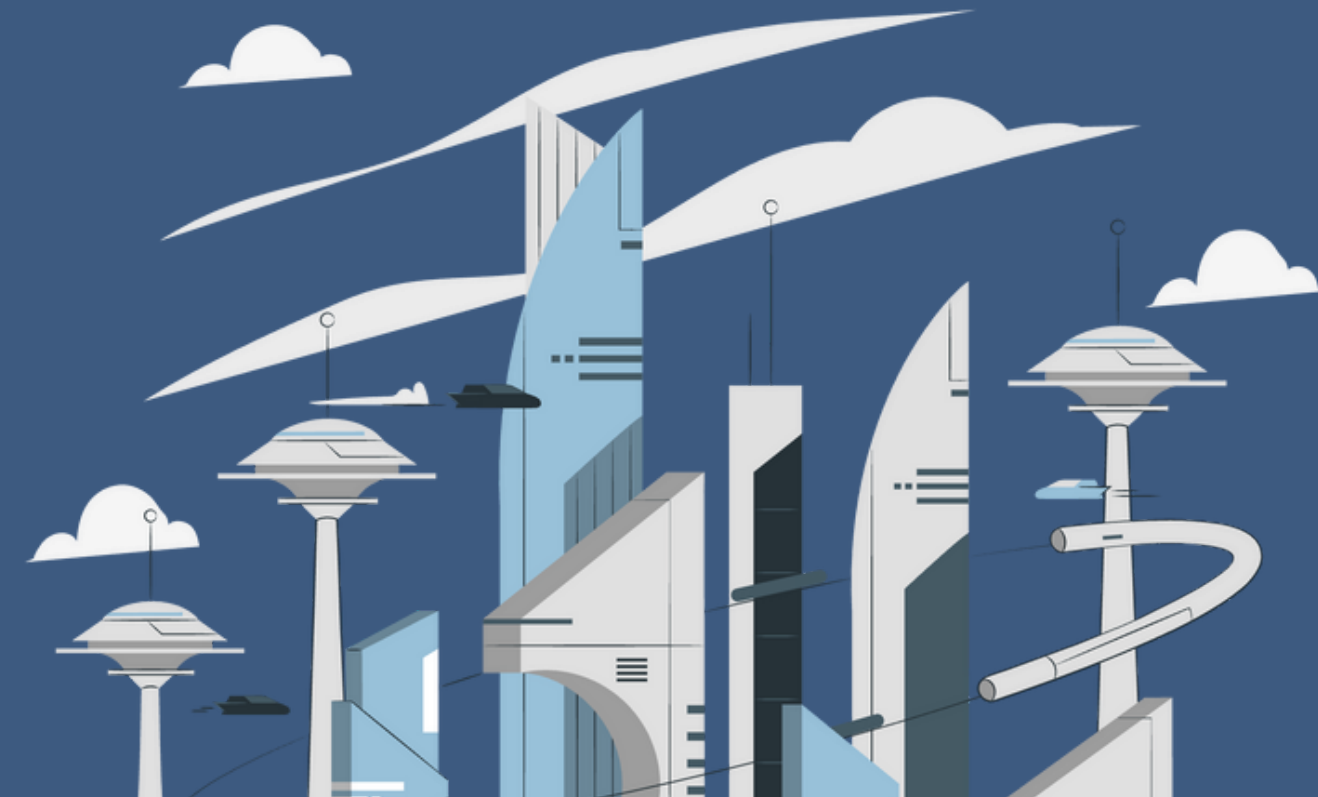
Enable the construction
of an optimal portfolio

Limitations



Limitation of Open AI's use-case policy

Our prototype faces inherent incompleteness



Limitations of Future Visions

The future plans are limited due to accuracy

Get Access to Our Prototype!!

<https://forms.gle/rgo3xWYazvLBQ1oZ9>

*Submit your email to this form, and
we will give you access to the demo.
Once you submit your email, you will
be able to access the link ↓*

[https://databutton.com/v/
pqfoy5ag](https://databutton.com/v/pqfoy5ag)

SCAN ME



The background is a solid dark blue color. It features several abstract, wavy white lines and shapes. A large, light blue, semi-transparent circular shape is in the upper left corner. Another similar, but slightly darker and more opaque, shape is in the lower right corner. The overall design is minimalist and modern.

Thank you!!