

Conversational Log

This document is going to look at the conversation logs of the technology stock bot and highlight any key implementation.

The screenshot shows a window titled "TECHNOLOGY STOCK CHATBOT". The chat log starts with a welcome message: "Welcome to the Technology StockBot. Please feel free to ask questions about technology stocks!". A user message "ME: Hi" is followed by a bot response "Bot: Hello I am your tech stock bot. What is your name?". The user replies "ME: My name is Rishi". The bot asks "Bot: Hello! How are you?". The user says "ME: I am ok!". The bot concludes with "Bot: Thats wonderful! Rishi! Ask me a question about technology stocks?". At the bottom of the window is a text input field with a cursor, and "Send" and "Clear" buttons.

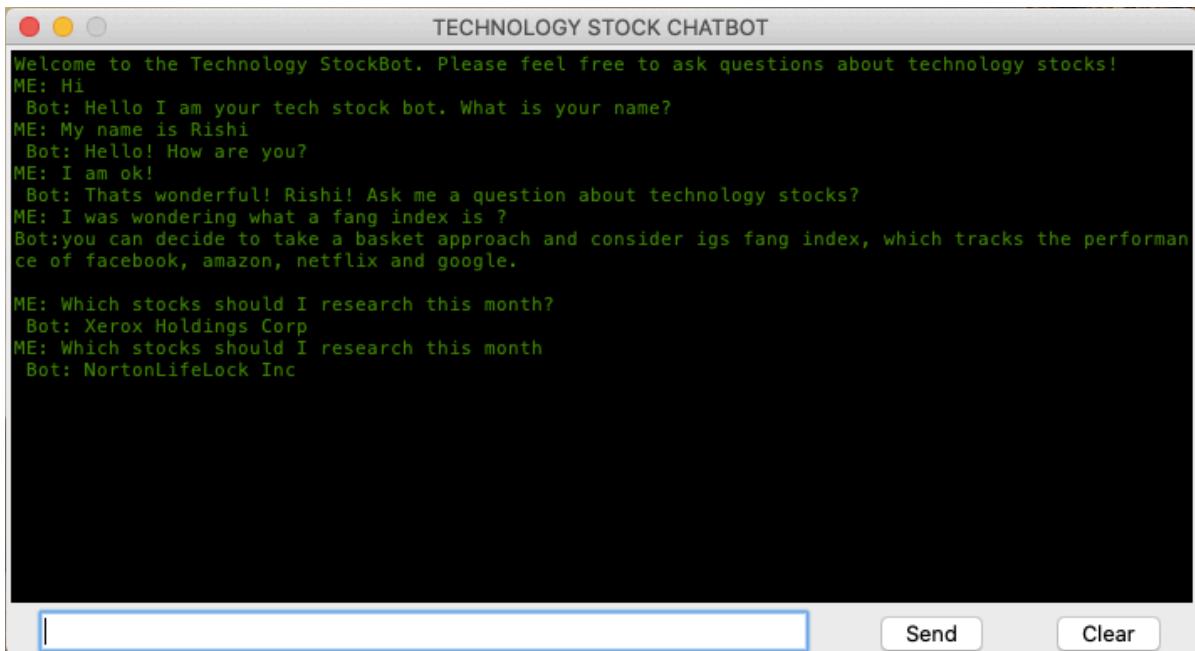
```
welcome to the Technology StockBot. Please feel free to ask questions about technology stocks!
ME: Hi
Bot: Hello I am your tech stock bot. What is your name?
ME: My name is Rishi
Bot: Hello! How are you?
ME: I am ok!
Bot: Thats wonderful! Rishi! Ask me a question about technology stocks?
```

Rule based component using AIML rules using <think>, <get> and <set> tags.

Similarity based component using bag words, Tf-idf and cosine similarity on the question and answers in the csv file.

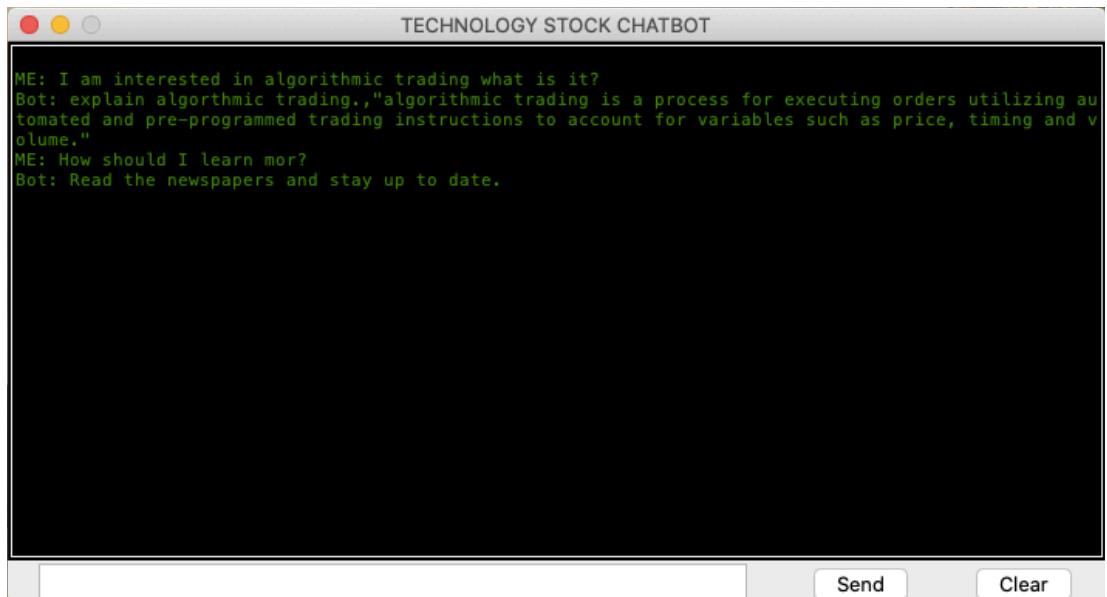
The screenshot shows a window titled "TECHNOLOGY STOCK CHATBOT". The chat log is identical to the one above, starting with a welcome message and a user asking about their name. The bot responds with a question about how they are feeling. The user replies that they are okay. The bot then asks if the user has any questions about technology stocks. In this version, the bot's response includes a detailed explanation: "Bot: Thats wonderful! Rishi! Ask me a question about technology stocks? ME: I was wondering what a fang index is ? Bot:you can decide to take a basket approach and consider igs fang index, which tracks the performance of facebook, amazon, netflix and google." At the bottom of the window is a text input field with a cursor, and "Send" and "Clear" buttons.

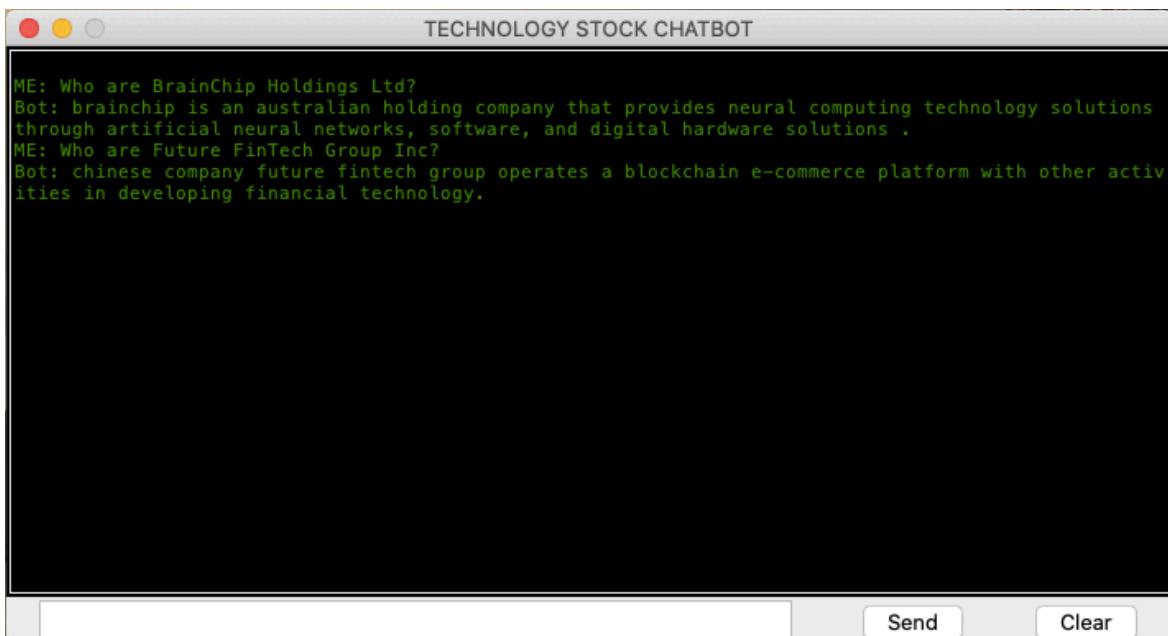
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Welcome to the Technology StockBot. Please feel free to ask questions about technology stocks!
ME: Hi
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ME: My name is Rishi
Bot: Hello! How are you?
ME: I am ok!
Bot: Thats wonderful! Rishi! Ask me a question about technology stocks?
ME: I was wondering what a fang index is ?
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```



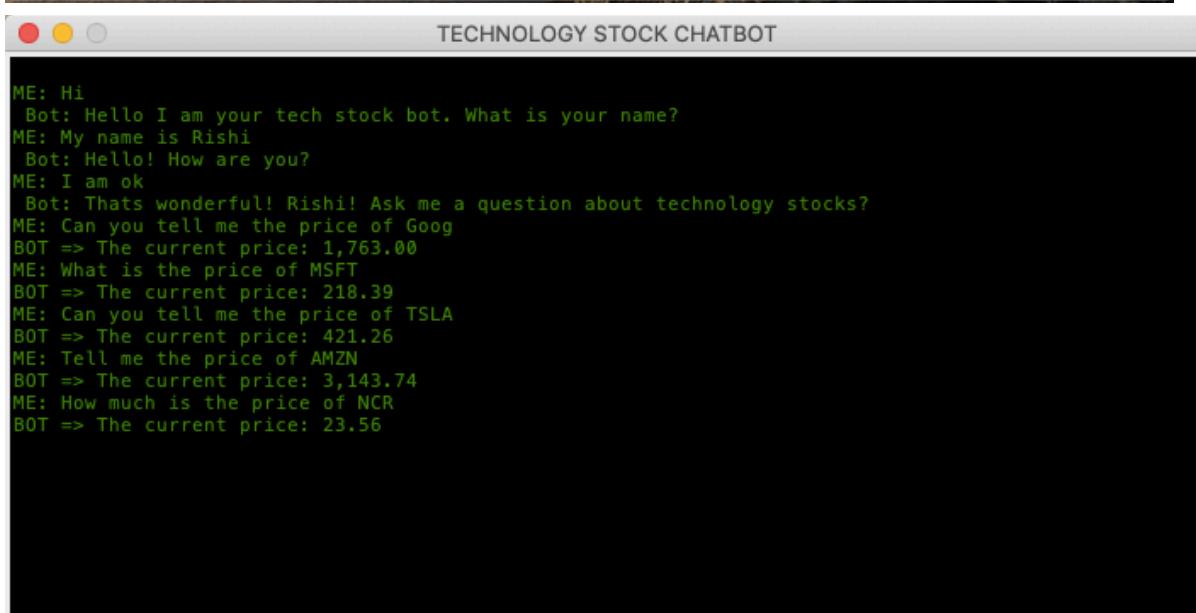
Rule based component using AIML rules using <random> and .

Similarity based component using bag words, Tf-idf and cosine similarity on the question and answers in the csv file.



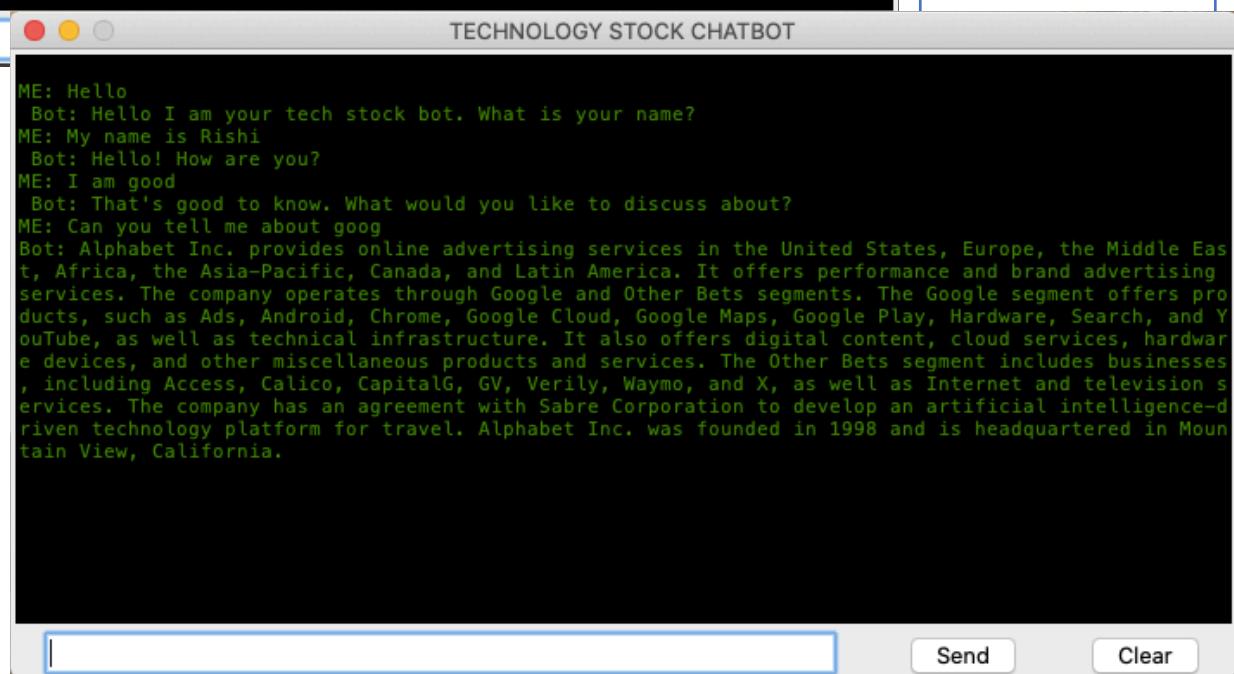


Similarity based component using bag words, Tf-idf and cosine similarity on the question and answers in the csv file.

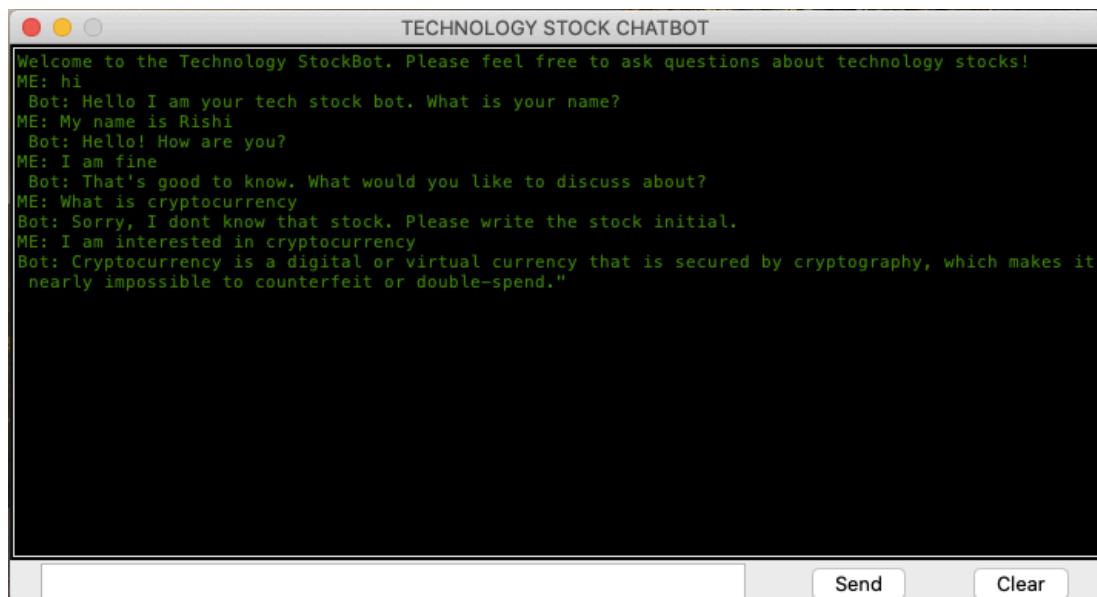


Rule based component using AIML rules using <star> tag and scraping yahoo finance for live prices.

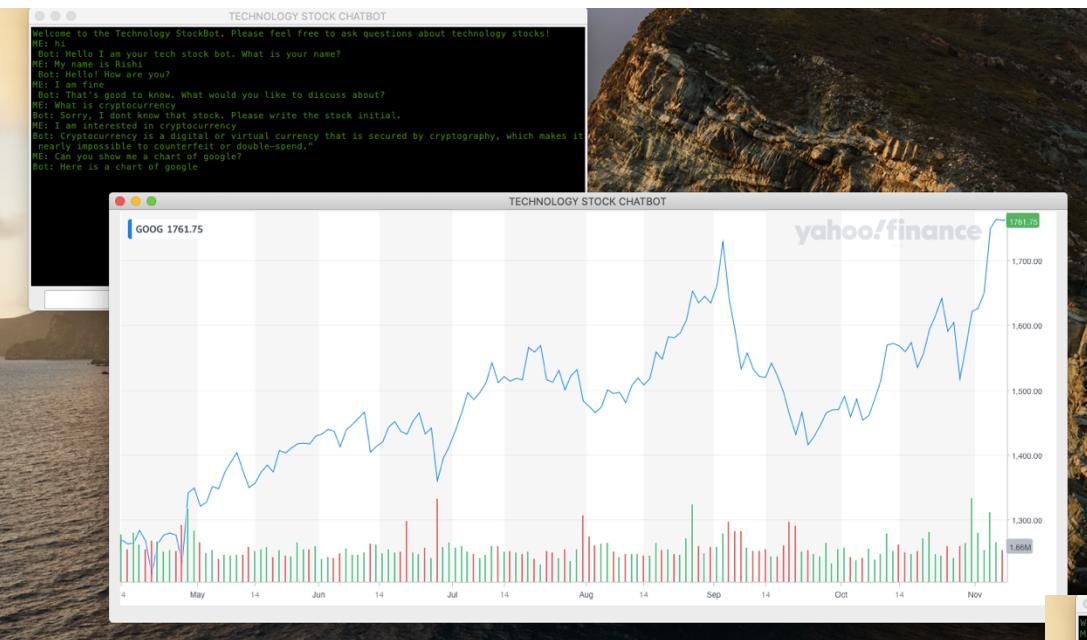
Rule based component using AIML rules using <star> tag and scraping yahoo finance to get information about company profiles.



Send Clear



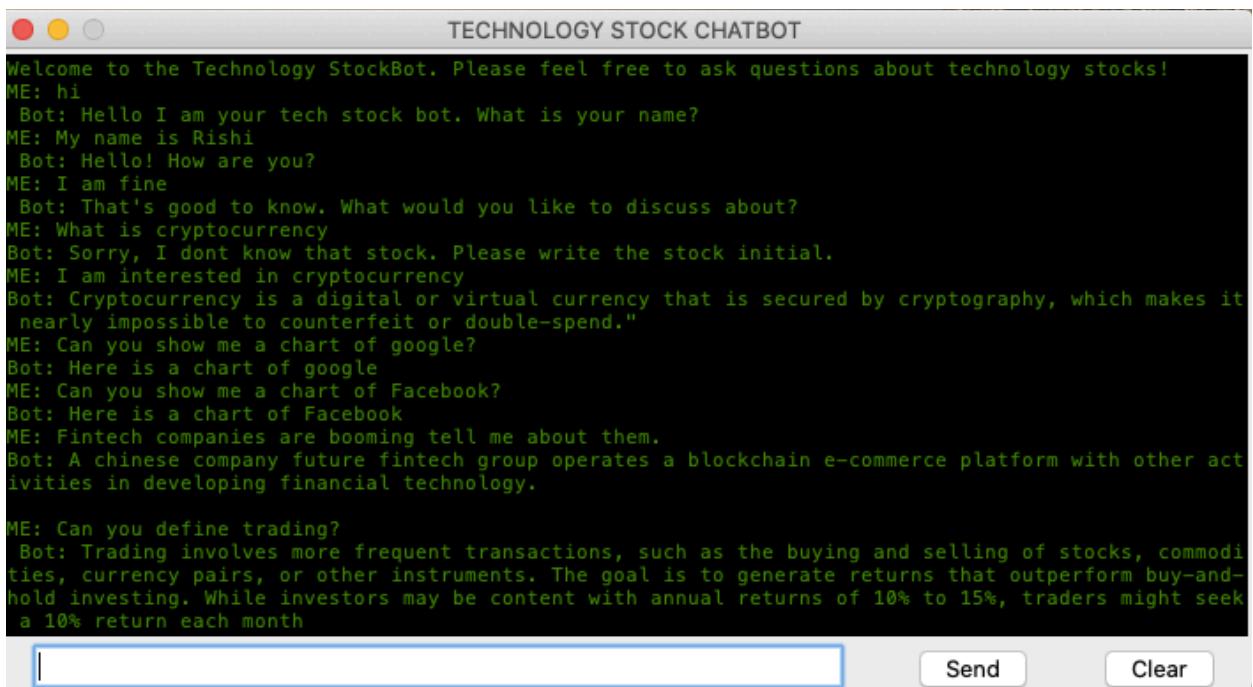
Similarity based component using bag words, Tf-idf and cosine similarity on the question and answers in the csv file.



Rule based component using AIML rules using <star> tag and opening non-textual data.

Rule based component using AIML rules using <star> tag and opening non-textual data.

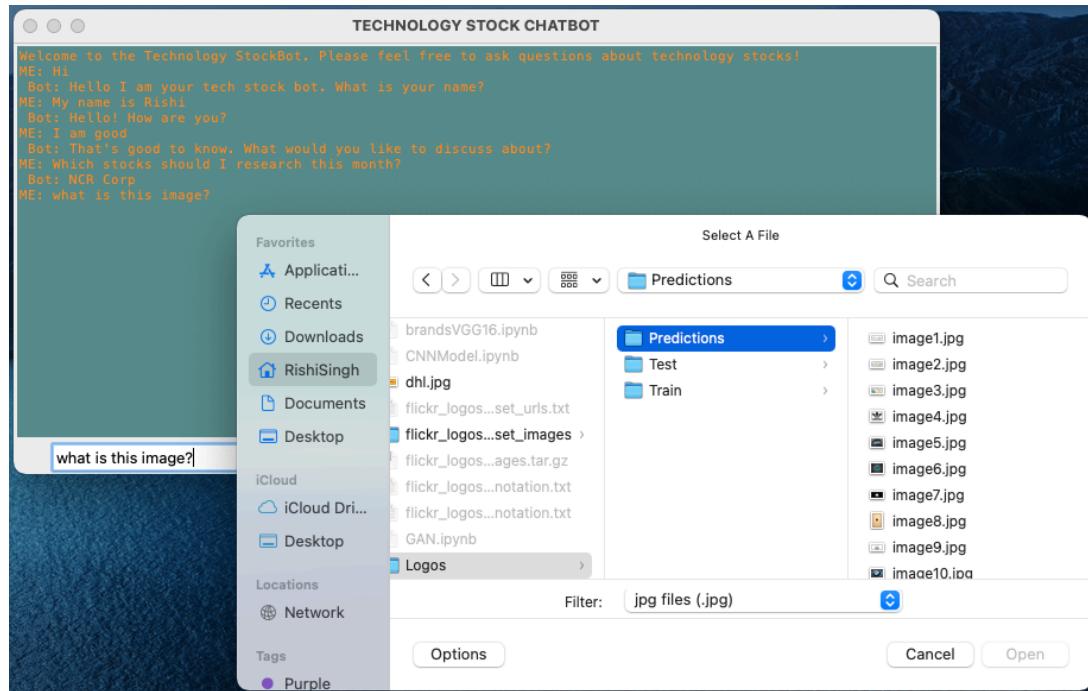




Similarity based component using bag words, Tf-idf and cosine similarity on the question and answers in the csv file. Bot was asked about fintech companies.

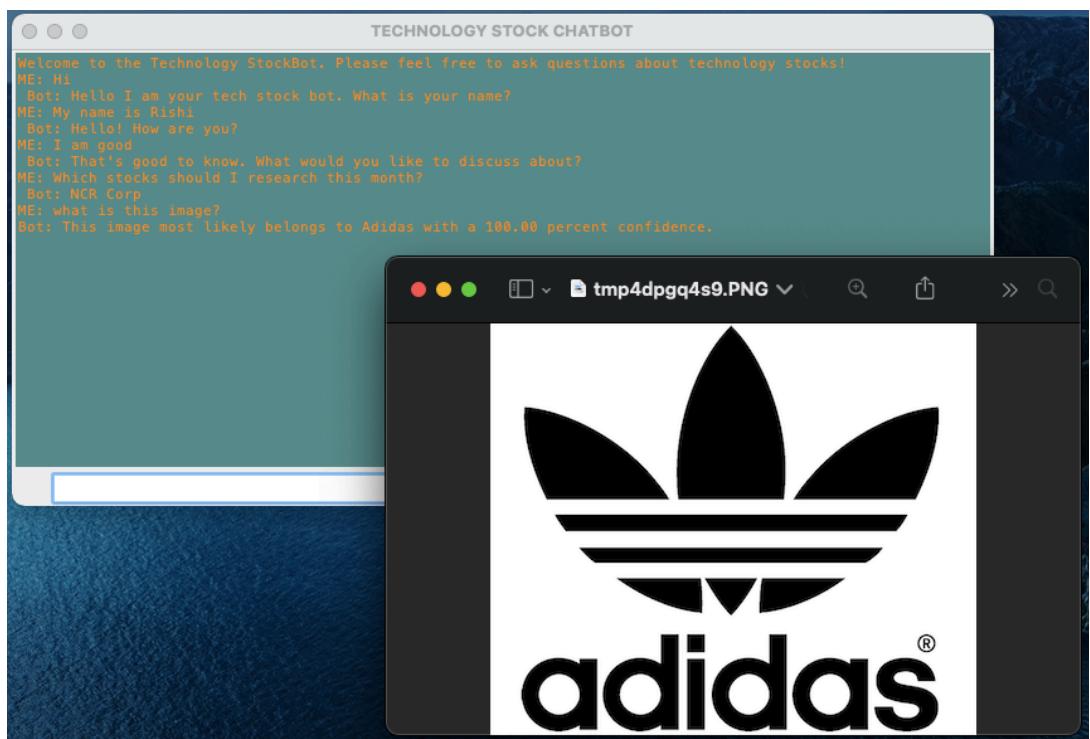
Rule based component using AIML rules, basic tags are used to define trading.

Stage 2: Conversation log

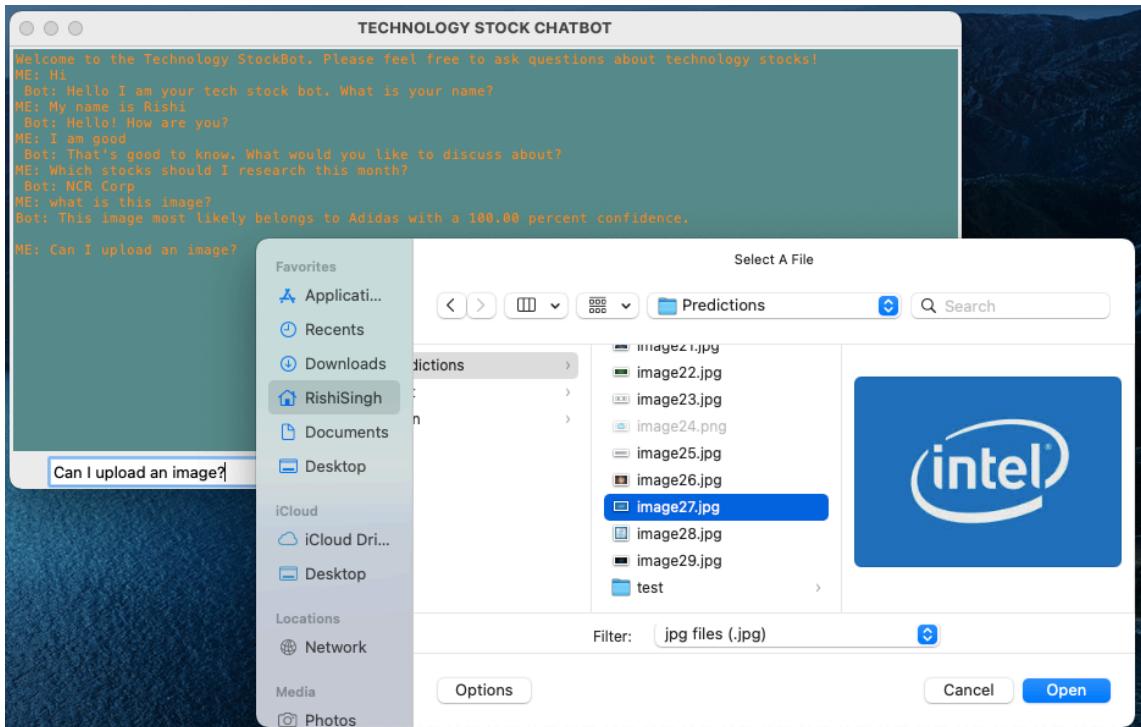


CNN component.
When the user enters:
“What is this image?”.
The bot opens the file
explorer for the user
to choose an image.

The user has chosen
an adidas image and
the chatbot has
classified the brand as
adidas with 100%
accuracy.

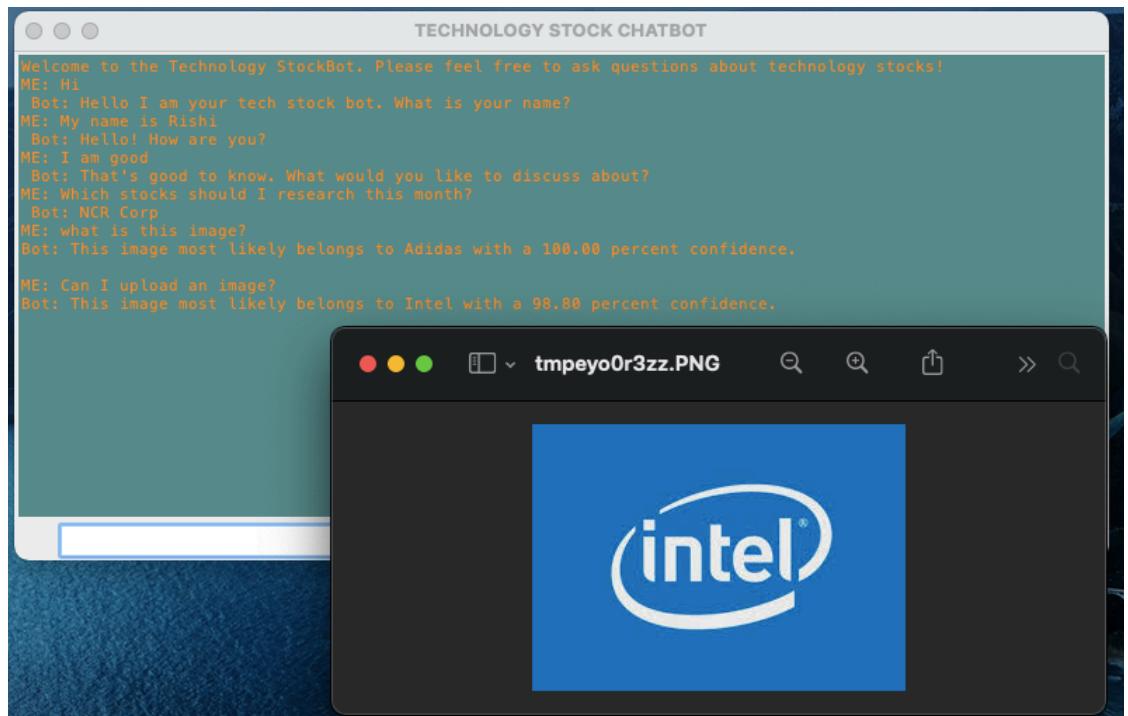


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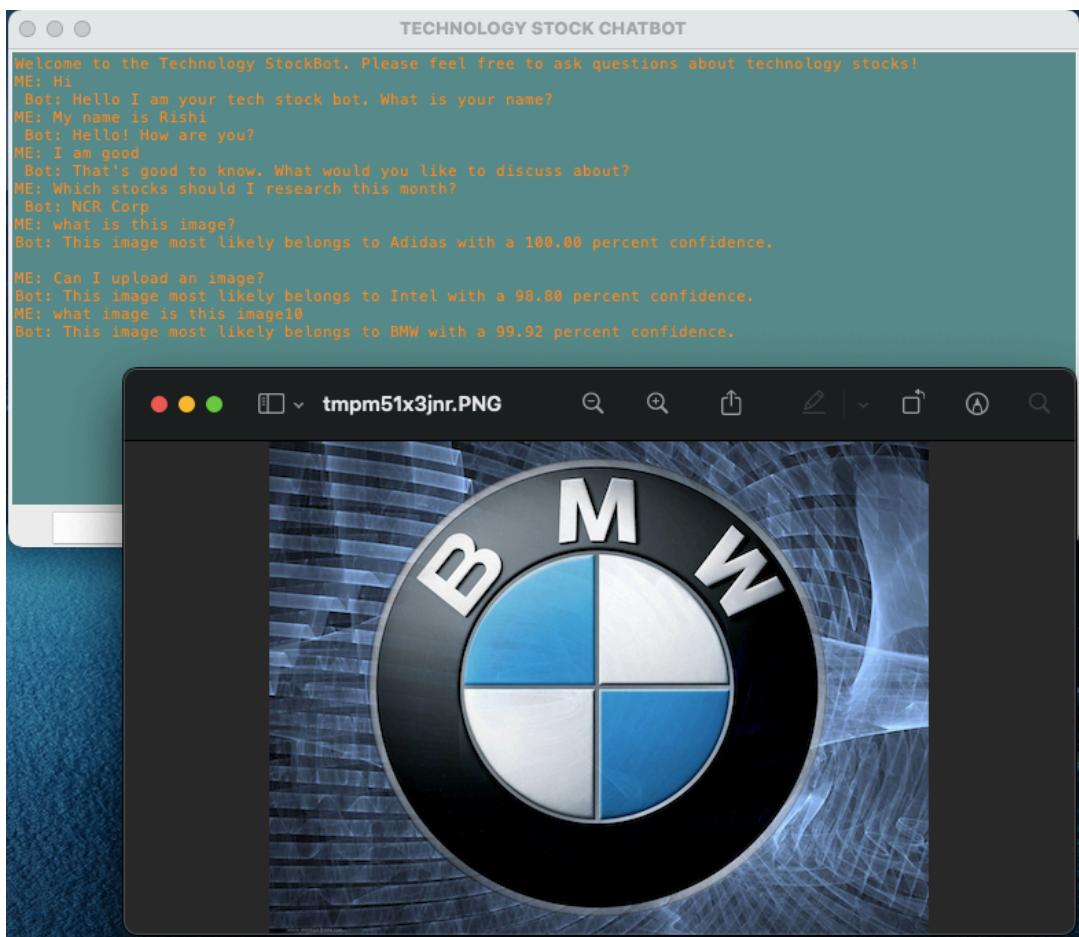


CNN component.
When the user enters:
“Can I upload an image?”. The bot
opens the file explorer
for the user to choose
an image.

The user has chosen
an intel image and the
chatbot has classified
the brand as adidas
with 98.8% accuracy.



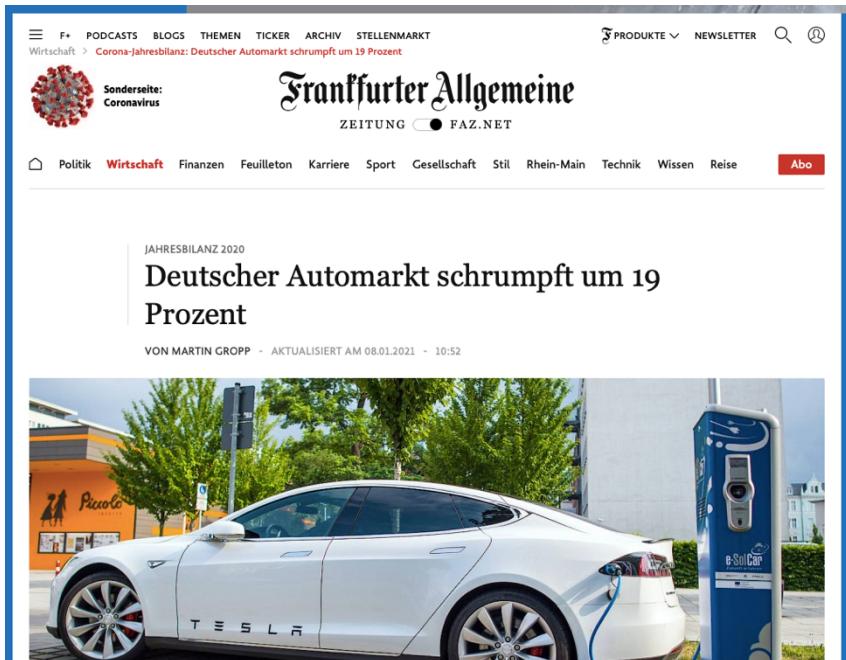
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When the user enters a filename: "What image is this image10?". The bot opens the image and replies with the correct brand with a 99.92% accuracy.

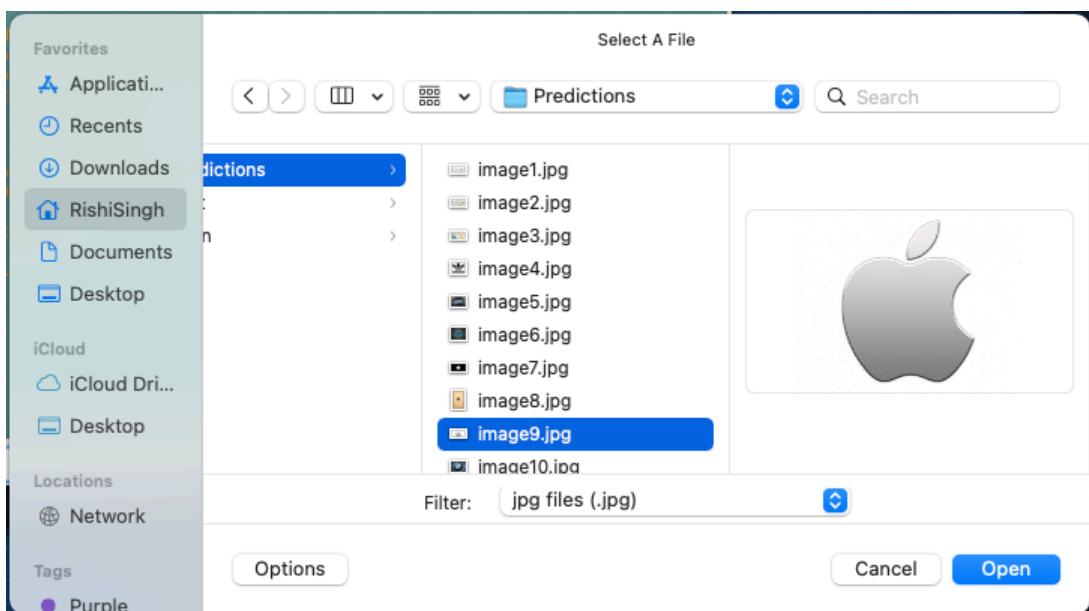
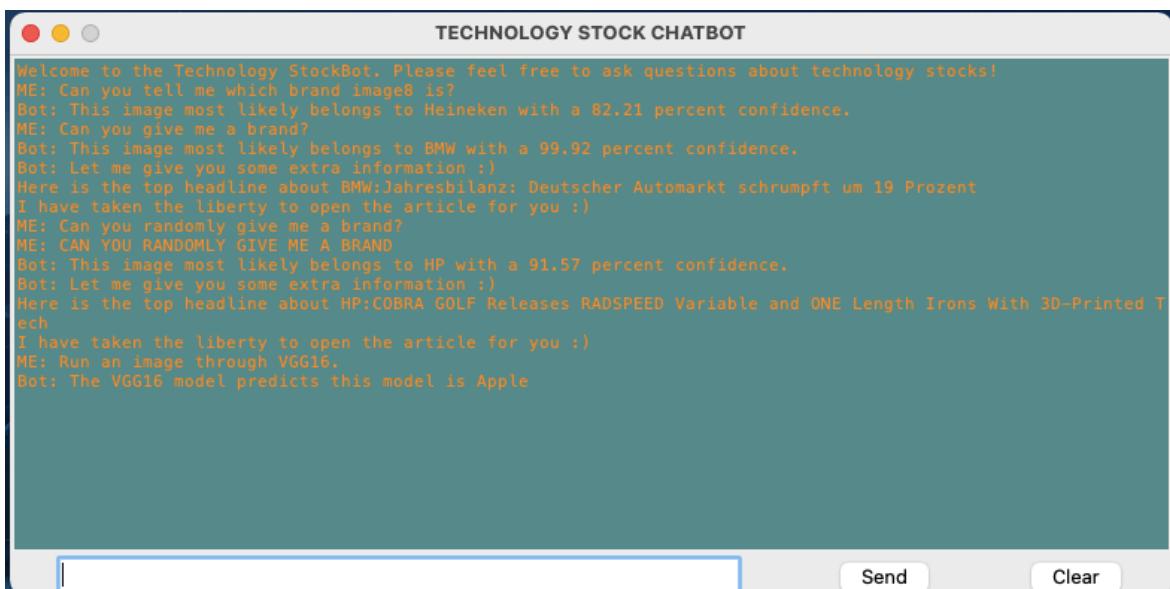
News API - When the user enters a filename: "Can you give me a brand?". The bot opens the image and replies with the correct brand and opens a news article about the brand in this case BMW.



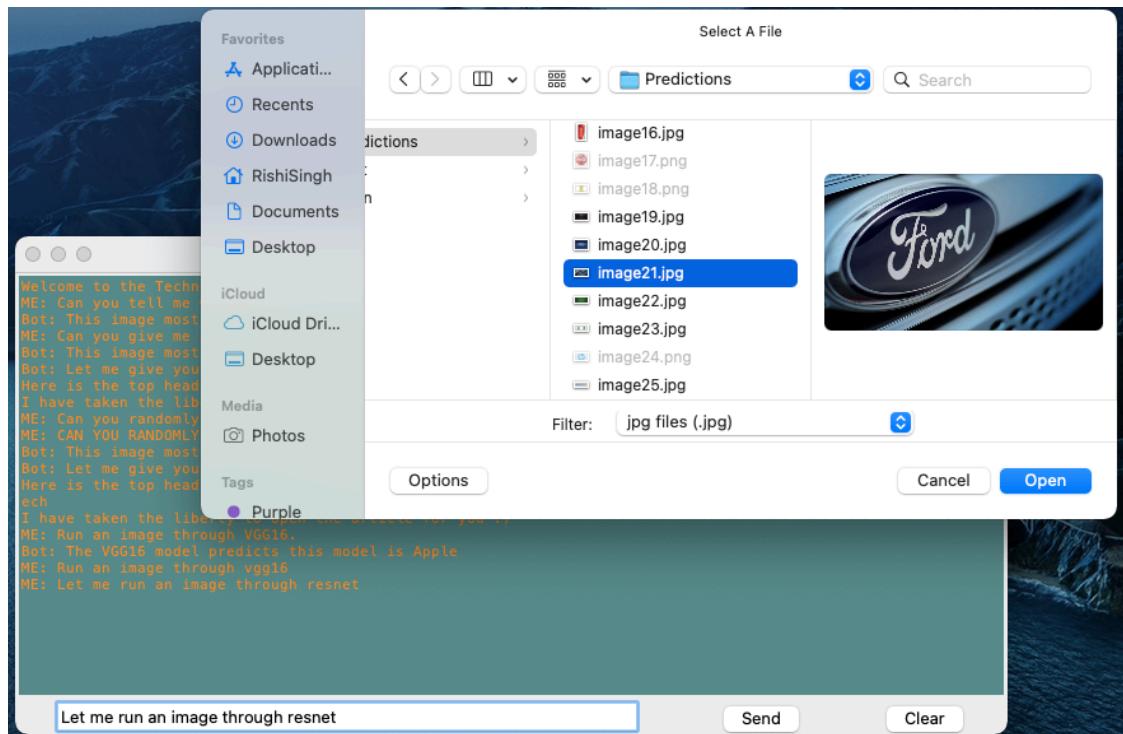


News API – A web page is opened for the user.

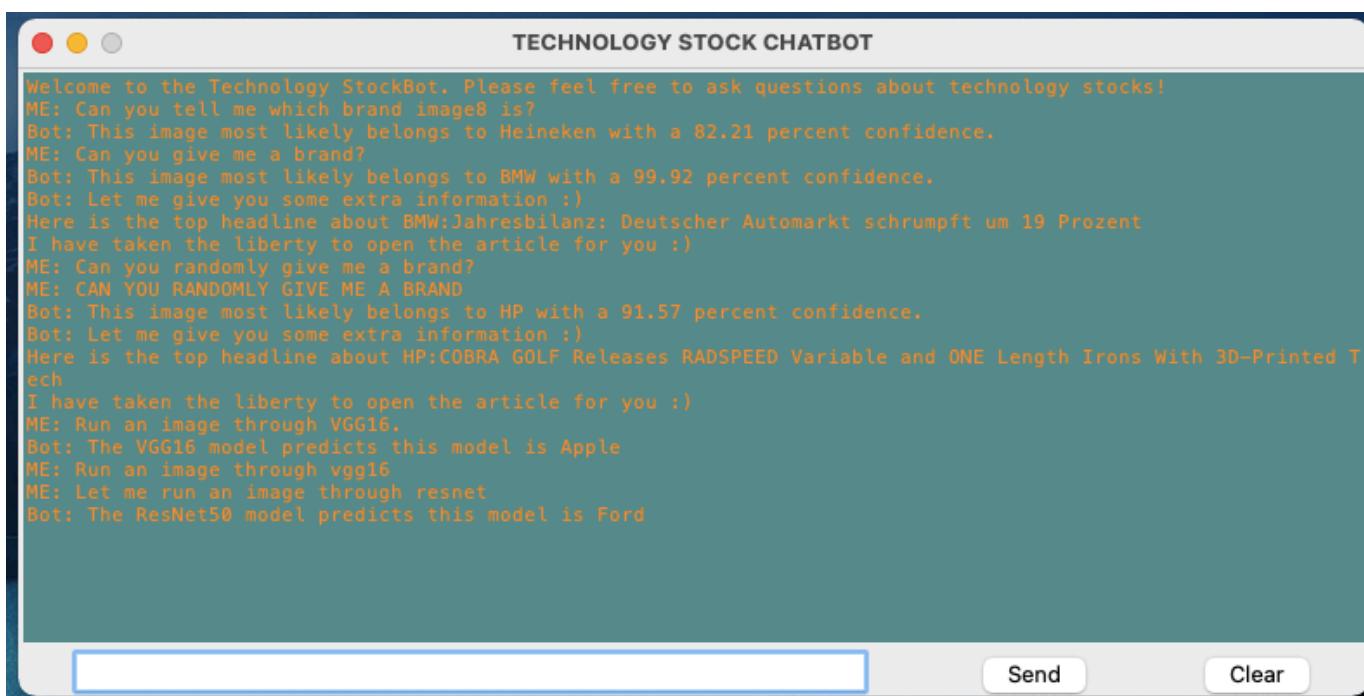
When the user enters a filename: "Run and image through VGG16". The bot classifies the brand using the VGG16 MODEL.



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When the user enters a filename: "Let me run an image through resnet". The bot classifies the brand using the VGG16 MODEL.

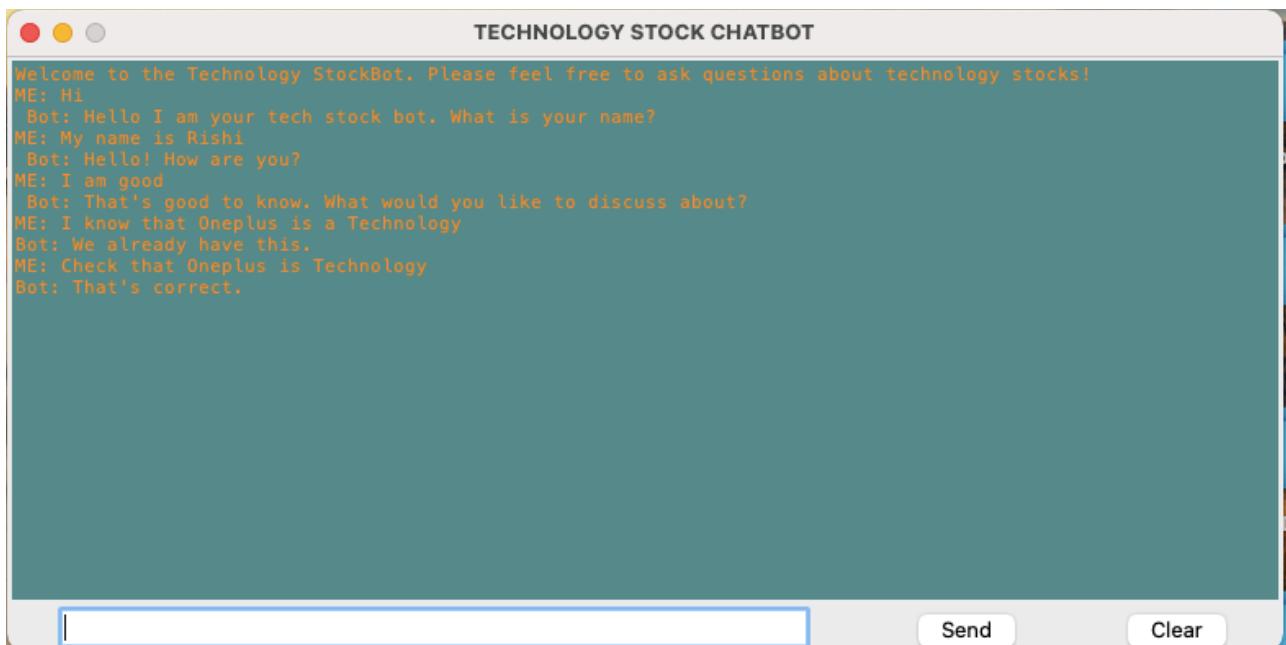


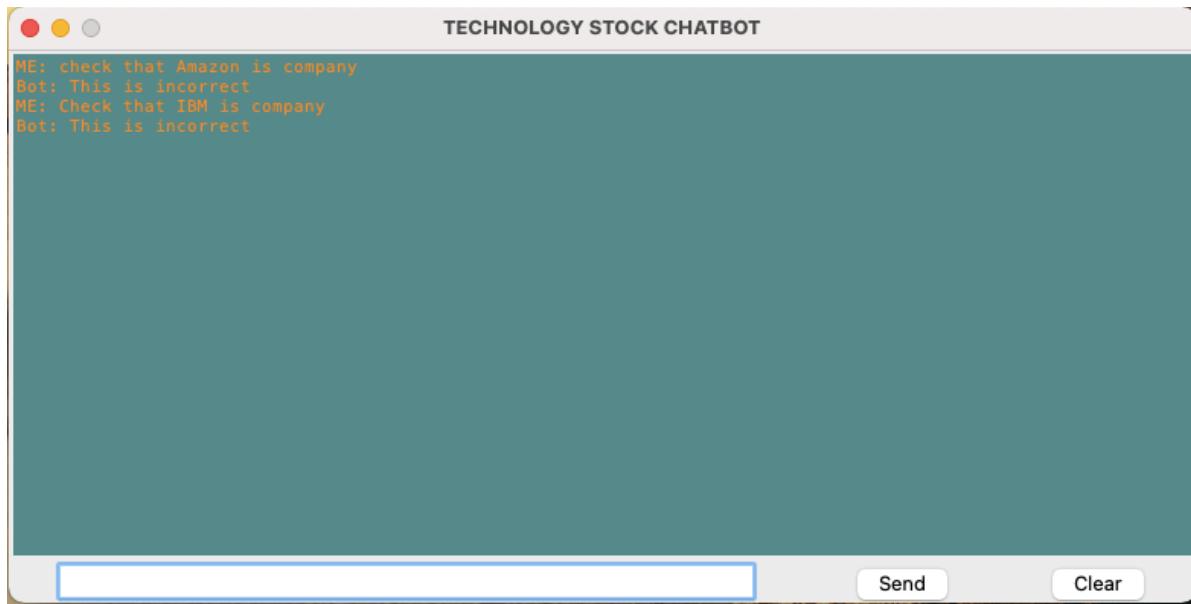
Stage 3 Conversation Log



This shows the Knowledge-based component is checking the data in the csv making for existing statements. Oneplus is already defined as a technology in the CSV file. E.g. Technology(Oneplus)

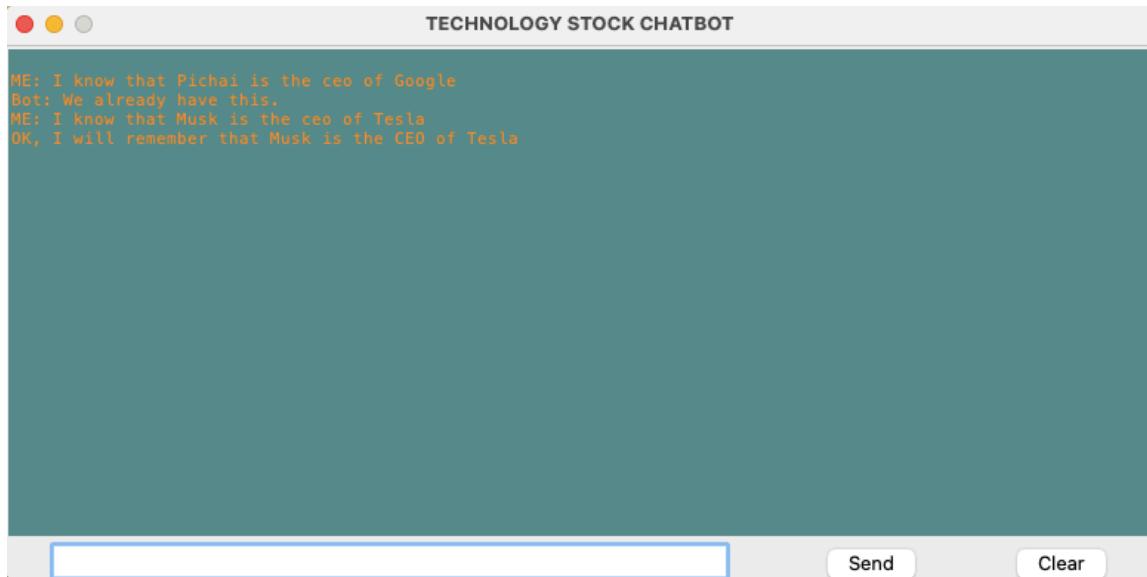
This shows the Knowledge-based component is checking the data to see if Oneplus is a technology company. The chatbot has checked and has returned that Oneplus is a technology company.





This shows the Knowledge-based component is checking the data to see if Amazon is a company. The chatbot has checked and has returned that Amazon is not a company. This shows false detection.

This shows the Knowledge-based component is trying to append that IBM is a Fang. The chatbot has returned a contradiction message and does not append the statement to its knowledge.



The chatbot is appending new data to its knowledge base.



Checking a statement which includes Conjunction,
Disjunction and implication.



Checking a statement which includes Conjunction and
implication.



Conversation Log 4

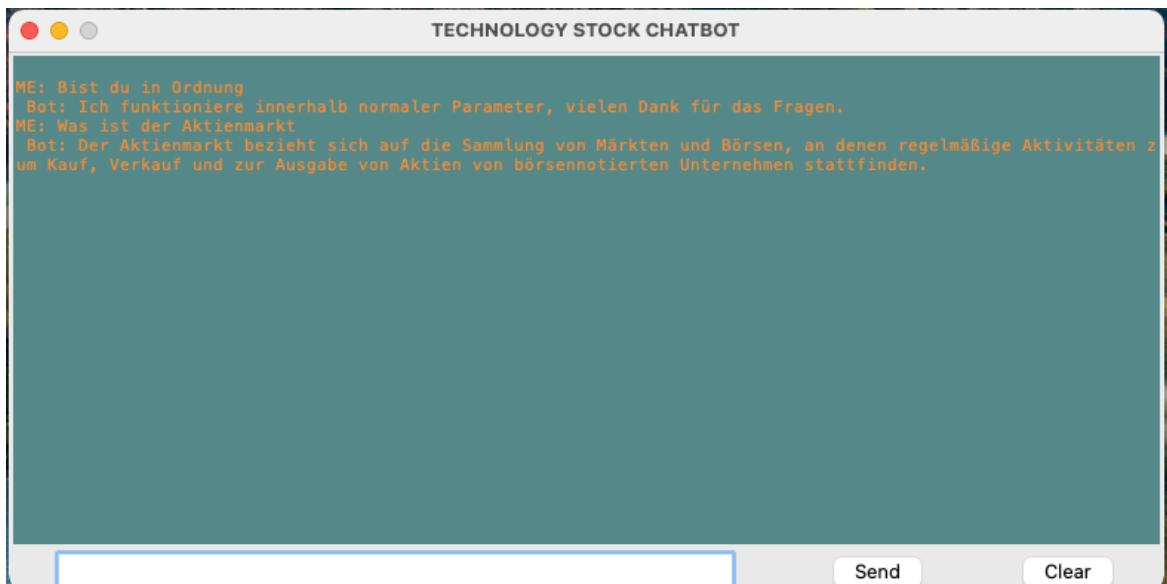
This document is going to look at the conversation logs of the technology stock bot and highlight any key implementation.

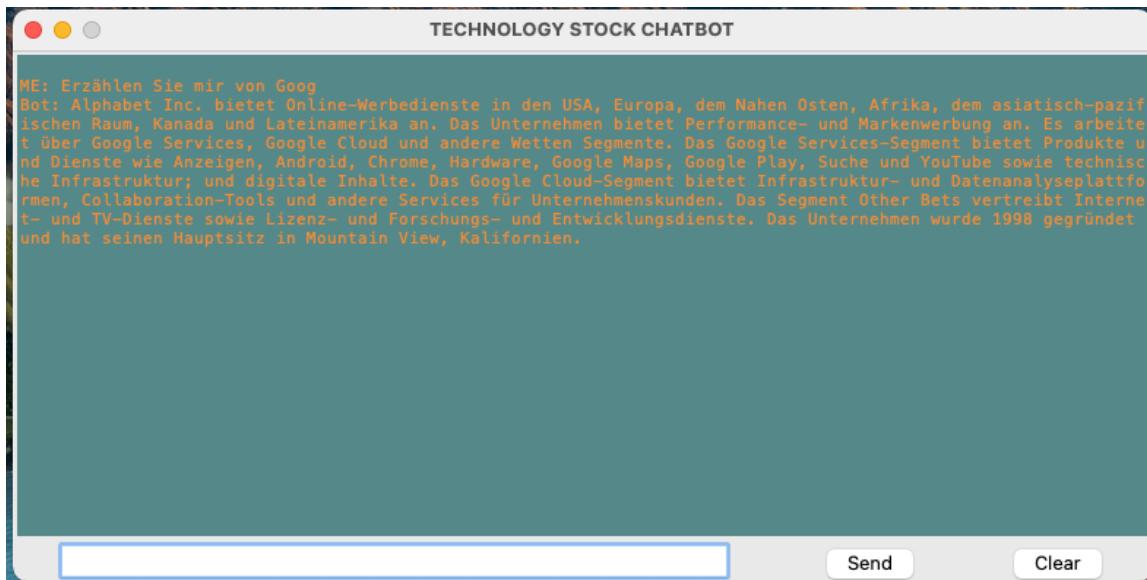
German language



Use of Microsoft azure to communicate with the chatbot in German.

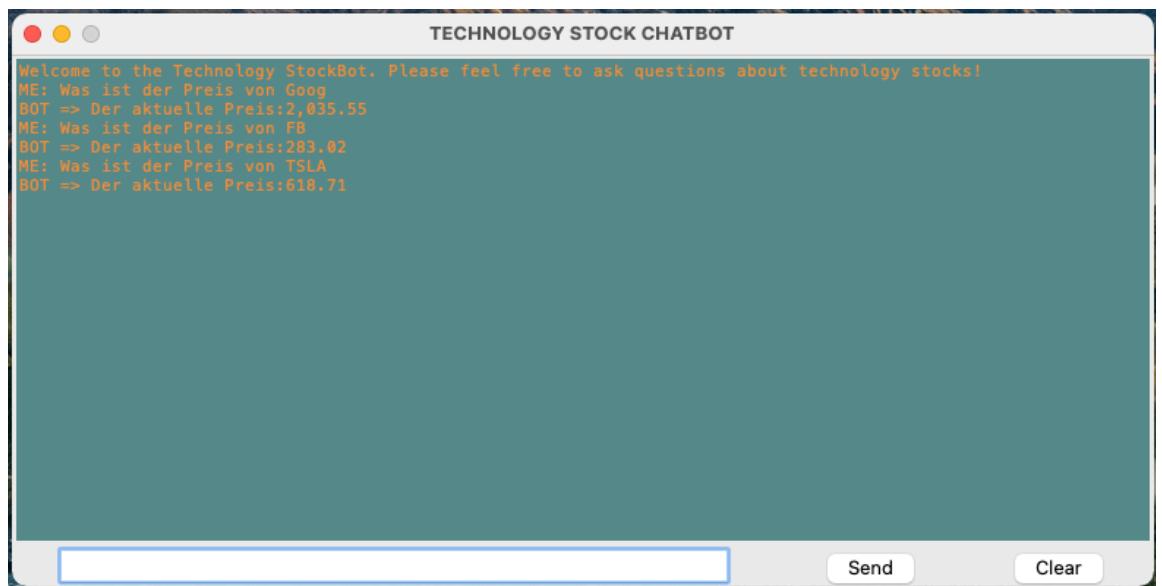
Use of Microsoft azure to communicate with the chatbot in German. User asking the bots status and asking what the stock market is.



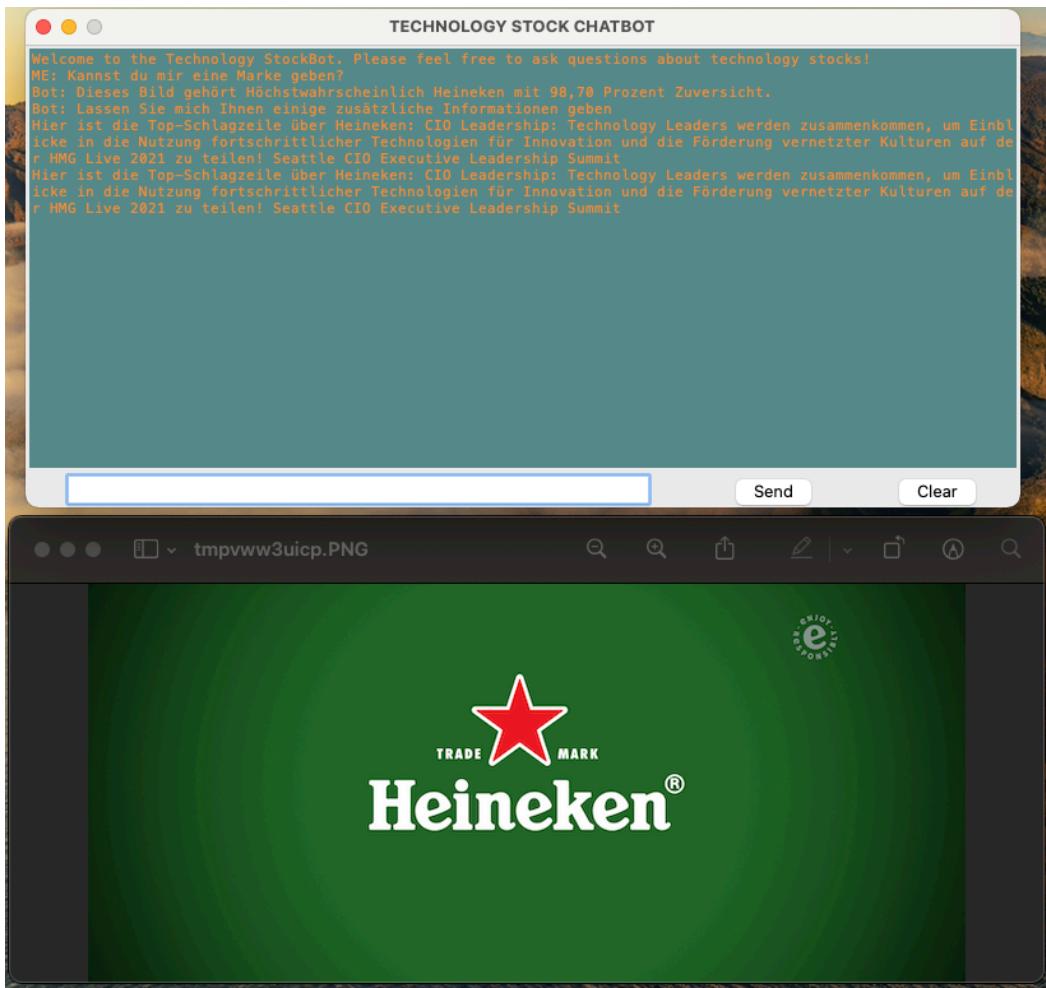


Use of Microsoft azure to communicate with the chatbot in German. User asking information about Google using Googles stock market sentence.

Use of Microsoft azure to communicate with the chatbot in German. User asking for stock prices in German.



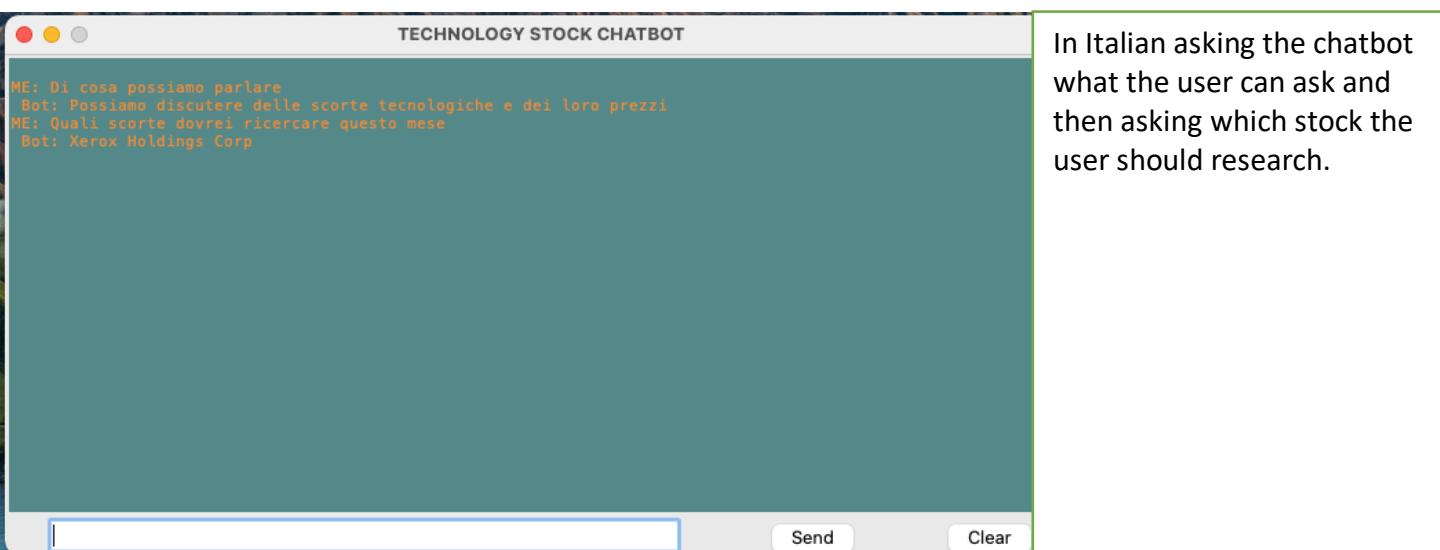
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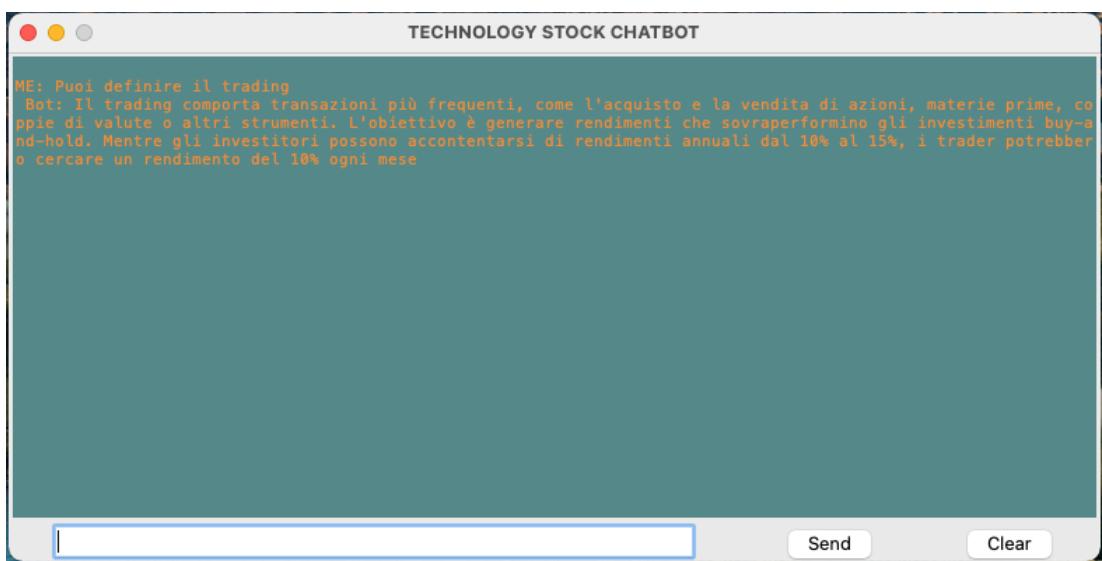
In this conversation the user requested the chatbot to generate a logo in German and the chatbot has replied successfully in German.

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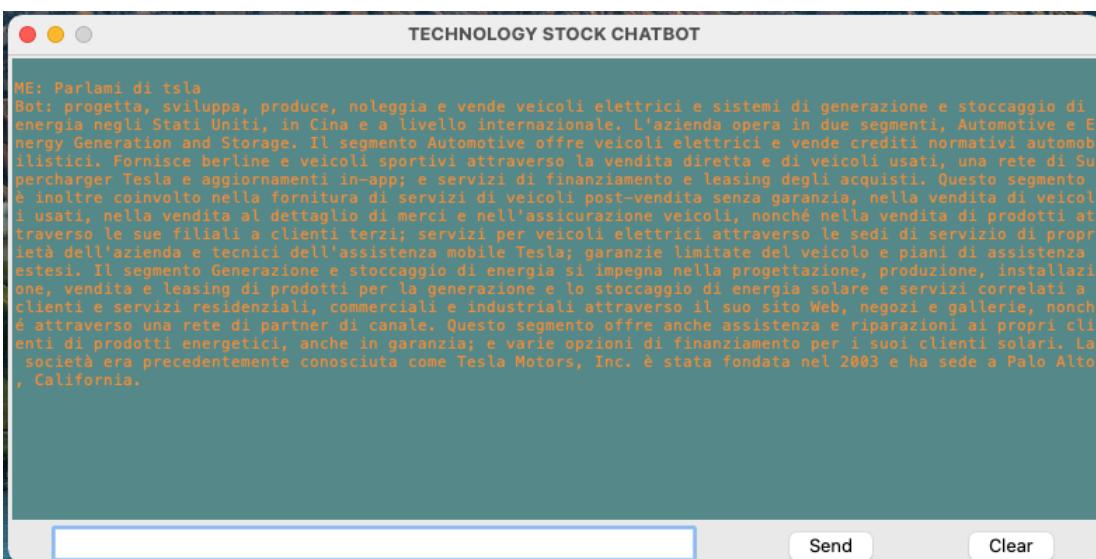
Italian Language:



In Italian asking the chatbot the definition of trading.

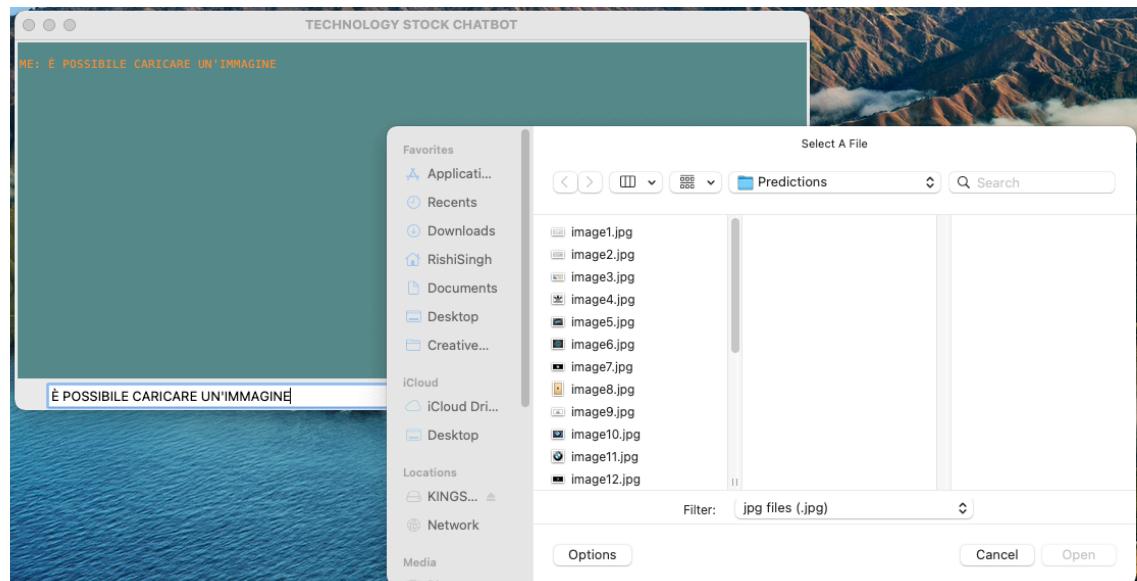


In Italian asking the information about Tesla.



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In Italian asking to upload an image



TECHNOLOGY STOCK CHATBOT

ME: È POSSIBILE CARICARE UN'IMMAGINE
Bot: Questa immagine molto probabilmente appartiene ad Adidas con una fiducia del 100,00%.

The review 1 article is chosen and a sentiment score and analysis are given in Italian.

In Italian the chosen image is classified and the adidas image is classified correctly with the answer in Italian.

