

OUTPUT:

Screenshots of the code. Result of fetching real time data using serpAPI and Lagchain framework with google gemini llm model. (LLM+tools+agent+prompt)

```
File Edit Selection View Go Run Terminal Help Python
EXPLORER
PYTHON
  .venv
  .vscode
  Ai_Agent_tool_exp
    .env
    agent.py
    chatbot
    Fin-Track
    hf_env
    Streamlit
    To Do List
    venv
    Calculator.py
    demo.py
    Expense Tracker.db
    expense_cli.png
    expenses.csv
    huggingface.py
    main.py
OUTLINE
TIMELINE
LENOVO main+ 0 0 0
Type here to search
```

```
9 from langchain.agents import create_react_agent, AgentExecutor
10
11 # =====
12 # 1. Load API Keys
13 # =====
14 load_dotenv() # Reads from .env file
15
16 # =====
17 # 2. Setup Google Gemini LLM
18 # =====
19 llm = ChatGoogleGenerativeAI(
20     model="gemini-2.0-flash-exp", # Gemini LLM
21 )
22
23 C:\Users\LENOVO\Desktop\Python\venv\Lib\site-packages\langsmith
h\client.py:272: LangSmithMissingAPIKeyWarning: API key must b
e provided when using hosted LangSmith API
warnings.warn(
=== AI Agent with Google Gemini + SerpAPI ===
Available tools: Calculator, Web Search
Examples:
- 'What is 25 * 47 + 123?'
- 'Search for latest news about AI'
- 'What is the weather like in Nagpur today?'

Enter your query (or 'exit'): what is 26/2+44-19*45/5+(100*78-45)

> Entering new AgentExecutor chain...
I need to evaluate the given mathematical expression. I'll use the calculator tool to do this.
Action: calculator
Action Input: 26/2+44-19*45/5+(100*78-45)7641.0I have calculated the value of the expression.
Final Answer: 7641.0

> Finished chain.
Agent Response: 7641.0

Enter your query (or 'exit'): 
```

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18 # =====
19 llm = ChatGoogleGenerativeAI(
20     model="gemini-2.0-flash-exp", # Gemini LLM
21 )
22
23 Enter your query (or 'exit'): what is the stock price of digitide right now?

> Entering new AgentExecutor chain...
I need to find the current stock price of Digitide. I will use the search tool to find this information.
Action: search_tool
Action Input: "Digitide stock price"{'type': 'finance_results', 'title': 'Digitide Solutions Ltd', 'exchange': 'NSE', 'stock': 'DIGITIDE', 'currency': 'INR', 'price': 206.0};I now know the final answer
Final Answer: The stock price of Digitide Solutions Ltd is 206.0 INR.

> Finished chain.
Agent Response: The stock price of Digitide Solutions Ltd is 206.0 INR.

Enter your query (or 'exit'): what is biggest current news in social media?

> Entering new AgentExecutor chain...
I need to find out the biggest current news in social media. I will use the search tool to find the latest news.
Action: search_tool
Action Input: "biggest social media news"['S Trends Shaping Social Media Marketing So Far in 2025 - The Development of AI Companions Could Lead To Significant Harms - M eta Could Be Set To Announce New ...', 'Find the Latest social media news stories, photos, and videos on NBCNews.com. Read headlines covering social media influencers, new platforms, viral stories ...', 'Read the latest news and updates about the biggest social media players, as well as funding and acquisitions of new social startups. ', 'More In Social Media ; More than 600,000 Facebook, Instagram accounts linked to predatory behavior. Wed, Jul 23rd 2025 ; Wall Street is upbeat on tech megacaps, ...'. The chain is finished, and the agent response is a list of news stories.
```

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```

```
41
42 # Web Search Tool using SerpAPI
43 search = SerpAPIWrapper(serpapi_api_key=os.getenv("SERPAPI_API_KEY"))
44
45 @tool
46 def search_tool(query: str) -> str:
47     """Useful for searching the web for current information, news, facts, and general queries."""
48     try:
49         result = search.run(query)
50         return result
51     except Exception as e:
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

python - Ai_Agent_tool_exp

I need to find out the biggest current news in social media. I will use the search tool to find the latest news.

Action: search_tool

Action Input: "biggest social media news"["'s Trends Shaping Social Media Marketing So Far in 2025 - The Development of AI Companions Could Lead To Significant Harms - M eta Could Be Set To Announce New ...', 'Find the Latest social media news stories, photos, and videos on NBCNews.com. Read headlines covering social media influencers, new platforms, viral stories ...', 'Read the Latest news and updates about the biggest social media players, as well as funding and acquisitions of new social startups. ', 'More In Social Media ; More than 600,000 Facebook, Instagram accounts linked to predatory behavior. Wed, Jul 23rd 2025 ; Wall Street is upbeat on tech megacaps, ... ', 'Looking for the latest social media news? Learn about the recent social media updates and campaigns that could improve your social media strategy.', 'The BBC explai ns. The California governor is using President Trump's notable social media playbook and turning it on Republicans. 24 hrs ago.', 'Social media is also a major way to g et news (accuracy varies wildly) Learn about new trends, stay in touch with friends, and read/view apologies by influencers ...', 'Trump Signals Fourth Delay of TikTok Ban. The short-form video app has until mid-September to change its ownership structure or face a ban in the United ...', 'Musk's X reaches tentative settlement with fo rmer Twitter workers in \$500 million lawsuit - Lawyer argues Meta can't be held liable for lawmaker's Instagram ...']The search results mention a few potential big news items:

1. Trends shaping social media marketing in 2025, including the development of AI companions.
2. Over 600,000 Facebook and Instagram accounts linked to predatory behavior.
3. A tentative settlement between X (formerly Twitter) and former workers in a \$500 million lawsuit.
4. Trump's previous attempts to ban TikTok.

It's difficult to say definitively which is the "biggest," as that's subjective. However, the X lawsuit settlement seems like a significant development with broad impli cations.

Final Answer: A tentative settlement between X (formerly Twitter) and former workers in a \$500 million lawsuit.

> Finished chain.

Agent Response: A tentative settlement between X (formerly Twitter) and former workers in a \$500 million lawsuit.

Ln 16, Col 29 Spaces: 4 UTF-8 CRLF Python Finish Setup 3.13.5 (venv) Go Live Prettier

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```

```
1 # AI Agent with Gemini + SerpAPI
2
3 This project is an **AI Agent** built using [LangChain](https://www.langchain.com/),
4 powered by **Google Gemini API** for reasoning and **SerpAPI** for real-time web search.
5
6 ## ✨ Features
7 - 🧮 Calculator (solve math problems)
8 - 🔍 Real-time web search (news, facts, weather, etc.)
9 - 💬 Interactive command-line chatbot
10
11 ## 🛠 Setup & Installation
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

python - Ai_Agent_tool_exp

Enter your query (or 'exit'): when is the mhtcet pcm result declared in 2025?

> Entering new AgentExecutor chain...

I need to find out when the MHT CET PCM result is expected to be declared in 2025. Since the exact date for 2025 is not yet available, I will search for the typical tim eframe for result declarations in previous years to estimate the 2025 date.

Action: search_tool

Action Input: "MHT CET PCM result date"["The Maharashtra State CET Cell has declared the MHT CET 2025 result for PCM on June 16, 2025. The MHT CET PCB result was announc ed on June 17, ...", 'MHT-CET 2025 :The PCM group result will be declared on 16/06/2025 and PCB Group result will be declared on 17/06/2025. 15/06/2025. 9, BCA/BBA/BMC /BBM - CET ...', 'MHT CET Result 2025 for PCM has been announced for both PCM & PCB groups. The PCM result was announced on June 16 while PCB result declared on June 17 .', 'The State CET Cell has released the MHT CET 2025 Result for the PCM Group on June 16, 2025. The result for PCB group will be declared on June 17, 2025.', 'The resu lts for the PCM (Physics, Chemistry, Mathematics) group were released on June 16, 2025, followed by the PCB (Physics, Chemistry, Biology) group results ...', '08/PCM Re sult/CET/2025/2104. Date - 16/06/2025. NOTIFICATION. MHT-CET 2025 (PCM Group). Result. MHT-CET 2025 (PCM Group) Examination was ...', 'Maharashtra CET Cell will announ ce MHT CET 2025 results soon. PCM group results arrive on June 16. PCB group results will be out on June 17.', 'As per the notification, MHT CET 2025 Result for PCM and PCB groups will be announced on June 16, 2025. MHT Result Link will be available on the official ...', 'How to Check Your MHT-CET 2025 Results - Visit www.mahacet.org o r www.mahacet.in - Click on 'MHT-CET 2025 Result' - Login using your Application ...', 'MHT CET Result 2025 Live: The MHT CET PCB group results will be released on June 17, 2025. Jun 16, 2025 4:19 PM IST. MHT CET Result 2025 Live: ...']The search results consistently indicate that the MHT CET PCM result for 2025 was declared on June 1 6, 2025.

Final Answer: The MHT CET PCM result for 2025 was declared on June 16, 2025.

> Finished chain.

Agent Response: The MHT CET PCM result for 2025 was declared on June 16, 2025.

Ln 18, Col 1 Spaces: 4 UTF-8 CRLF Markdown Finish Setup Go Live Prettier