Libraries:

Tools:

```
In [6]: from langchain_community.tools import DuckDuckGoSearchRun,YouTubeSearchTool

In [7]: tool1= DuckDuckGoSearchRun()
    tool2=YouTubeSearchTool(k=5)

In [30]: # response= tool1.invoke(input={"query": "What is ML?"})
    response= tool1.invoke(input= "Today's news Oscar Nominations 2025 full list")
    response
```

'See the full list of 2025 Oscar nominations, from \'Wicked\' domination to Demi Moore\'s rise in Best Actress, with other top contenders for Best Picture, Best Actress, and more. After a delay following the fires in Los Angeles, the nominations for the 97th Academy Awards were announced Thursday morning, with "Emilia Perez," "The Brutalist" " and "Wicked ... After a few stops and starts, nominations for the 97th Academy Awards were announced on Jan. 23 at 8:30 a.m. ET. "Emilia Pérez" led the field with 13 nominations, the most ever for a non ... The Netflix musical crime thriller is up for best picture as well as best actress and best supporting actress at the 97th Academy Awards on March 2 (airing live on ABC and streaming on Hulu at 7 p ... The nominees for the 97th Academy Awards have been announced. Leading the way is Jacques Audiard\'s "Emilia Pérez," a Spanish language, French-made film, with 13 nominations, including best picture and best actress for Karla Sofía Gascón, making her the first openly trans actor ever nominated for an'

```
In [31]: response= tool2.invoke("Youtube videos on Agentic AI")
    print(response)
```

['https://www.youtube.com/watch?v=F9LGHxDHUlU&pp=ygUcWW91dHViZSB2aWRlb3Mgb24gQWdlbnRpYyBBSQ%3D%3D', 'https://www.youtube.com/watch?v=0z9_MhcYvcY&pp=ygUcWW91dHViZSB2aWRlb3Mgb24gQWdlbnRpYyBBSQ%3D%3D']

Tools + LLM:

```
In [32]: response= llm.invoke("Today's news Oscar Nominations 2025 full list")
response.content
```

Out[32]: "I'm unable to provide you with the full list of Oscar nominations for 2025, as it's more than three years away and the nominations have n't been announced yet. However, I can help you with any information you need about the Oscars or past nominations and winners.\n\nThe 93 rd Academy Awards (Oscars) for the year 2021 were held recently, and the nominations were announced on March 15, 2021. Here are the nomin ees for some of the major categories:\n\nBest Picture:\n\n* The Father\n* Judas and the Black Messiah\n* Mank\n* Minari\n* Nomadland\n* P romising Young Woman\n\n* Sound of Metal\n* The Trial of the Chicago 7\n\nBest Director:\n\n* Thomas Vinterberg - Another Round\n* David Fi ncher - Mank\n* Lee Isaac Chung - Minari\n* Chloé Zhao - Nomadland\n* Emerald Fennell - Promising Young Woman\n\n\Best Actor:\n\n* Riz Ahm ed - Sound of Metal\n* Chadwick Boseman - Ma Rainey's Black Bottom\n* Anthony Hopkins - The Father\n* Gary Oldman - Mank\n* Steven Yeun - Minari\n\nBest Actress:\n\n* Viola Davis - Ma Rainey's Black Bottom\n* Andra Day - The United States vs. Billie Holiday\n* Vanessa Kirby - Pieces of a Woman\n* Frances McDormand - Nomadland\n* Carey Mulligan - Promising Young Woman\n\nBest Supporting Actor:\n\n* Sacha Baron Cohen - The Trial of the Chicago 7\n* Daniel Kaluuya - Judas and the Black Messiah\n* Leslie Odom Jr. - One Night in Miami..\n* Paul Rac i - Sound of Metal\n* Lakeith Stanfield - Judas and the Black Messiah\n\nBest Supporting Actress:\n\n* Maria Bakalova - Borat Subsequent Moviefilm\n* Glenn Close - Hillbilly Elegy\n* Olivia Colman - The Father\n* Amanda Seyfried - Mank\n* Yuh-Jung Youn - Minari\n\nYou can f ind the complete list of nominations and winners for the 2021 Oscars on the official Academy Awards website."

```
In [33]: query="Today's news Oscar Nominations 2025 full list"
    tool1_result= tool1.invoke(input=query)
    response= llm.invoke(f"Based on the result of this tool:{tool1_result},Proivde the Answer of {query} ")
    response.content
```

Out[33]: 'The nominations for the 97th Academy Awards, also known as the Oscars, were announced on January 23, 2025. The film "Emilia Pérez" led the field with 13 nominations, including best picture and best actress for Karla Sofía Gascón. Gascón is the first openly trans actor to be enominated for an Oscar. Other notable nominees include "The Brutalist" and "Wicked" in the best picture category. The awards will be presented at a ceremony held at a later date. Stay tuned to Deadline for complete coverage, analysis, and reactions to the nominations.'

Tools and Agents (using initialize_agent):

These classes are from langchain version 0.1(legacy)

```
In [36]: tools= [tool1,tool2]
In [37]: from langchain.agents import initialize_agent, Tool
    from langchain.agents import AgentType
    from langchain.agents import load_tools
In [38]: agent= initialize_agent(tools=tools,llm=llm,agent=AgentType.ZERO_SHOT_REACT_DESCRIPTION,verbose=True)
```

<ipython-input-38-11a56d5d6b7d>:1: LangChainDeprecationWarning: LangChain agents will continue to be supported, but it is recommended for n
ew use cases to be built with LangGraph. LangGraph offers a more flexible and full-featured framework for building agents, including suppor
t for tool-calling, persistence of state, and human-in-the-loop workflows. For details, refer to the `LangGraph documentation https://langchain-in-the-loop workflows. For details, refer to the `LangGraph documentation https://langchain-ai.github.io/langgraph/ `agent= initialize agent(tools=tools,llm=llm,agent=AgentType.ZERO SHOT REACT DESCRIPTION,verbose=True)

```
In [45]: agent.invoke("Today's news Oscar Nominations 2025 full list", max_iterations=3)
```

> Entering new AgentExecutor chain...

I need to find out the current news about the Oscar Nominations for the year 2025. However, it's currently 2022 and the Oscar Nominations for 2025 have not been announced yet. I can still look up the most recent news about the Oscars or the process of nominations to provide som e relevant information.

Action: duckduckgo search

Action Input: "Oscar Nominations 2025"

Observation: After a delay following the fires in Los Angeles, the nominations for the 97th Academy Awards were announced Thursday morning, with "Emilia Perez," "The Brutalist" " and "Wicked ... The nominees for the 97th Academy Awards have been announced. Leading the way is Jac ques Audiard's "Emilia Pérez," a Spanish language, French-made film, with 13 nominations, including best picture and best actress for Karla Sofía Gascón, making her the first openly trans actor ever nominated for an See the full list of 2025 Oscar nominations, from 'Wicked' domi nation to Demi Moore's rise in Best Actress, with other top contenders for Best Picture, Best Actress, and more. Oscar nominations 2025: Se e the full list of Academy Award nominees From Pamela Anderson to Daniel Craig, ... This year's Academy Awards is tweaking other aspects of its presentation as well. One ... The announcement of the 2025 Academy Awards nominees, originally set for Friday, Jan. 17, was delayed twi ce amid the Los Angeles wildfires, which have left at least 28 people dead with more than ...

Thought:I have found information about the Oscar Nominations for the year 2025 through a DuckDuckGo search. The nominations have been annou nced and the film "Emilia Pérez" leads with 13 nominations. Other notable nominees include Karla Sofía Gascón for Best Actress and Demi Moo re in the Best Actress category. The awards ceremony is making some changes to its presentation this year as well.

Final Answer: The nominees for the 97th Academy Awards, also known as the Oscar Nominations for 2025, have been announced. The film "Emilia Pérez" leads with 13 nominations, including Best Picture and Best Actress for Karla Sofía Gascón. Other notable nominees include Demi Moore in the Best Actress category. The awards ceremony is making some changes to its presentation this year.

> Finished chain.

Out[45]: {'input': "Today's news Oscar Nominations 2025 full list",

'output': 'The nominees for the 97th Academy Awards, also known as the Oscar Nominations for 2025, have been announced. The film "Emilia Pérez" leads with 13 nominations, including Best Picture and Best Actress for Karla Sofía Gascón. Other notable nominees include Demi Moo re in the Best Actress category. The awards ceremony is making some changes to its presentation this year.'}

Using Tool calling agent:

In [46]: from langchain.agents import create_tool_calling_agent,AgentExecutor
 from langchain import hub

In [64]: prompt= hub.pull("hwchase17/openai-functions-agent")

```
LangSmith API
      warnings.warn(
In [65]:
     prompt.pretty print()
     ------ System Message ------
    You are a helpful assistant
     {chat history}
     {input}
     {agent_scratchpad}
In [66]: agent= create tool calling agent(11m=11m,tools=tools,prompt=prompt)
In [67]:
     agent executor= AgentExecutor.from agent and tools(agent=agent,tools=tools,verbose=True)
     response=agent executor.invoke({"input":"Today's news Oscar Nominations 2025 full list."})
In [79]:
```

/usr/local/lib/python3.11/dist-packages/langsmith/client.py:256: LangSmithMissingAPIKeyWarning: API key must be provided when using hosted

> Entering new AgentExecutor chain...

Invoking: `duckduckgo_search` with `{'query': 'Oscar Nominations 2025 full list'}`

After a delay following the fires in Los Angeles, the nominations for the 97th Academy Awards were announced Thursday morning, with "Emilia Perez," "The Brutalist" " and "Wicked ... See the full list of 2025 Oscar nominations, from 'Wicked' domination to Demi Moore's rise in Bes t Actress, with other top contenders for Best Picture, Best Actress, and more. A complete list of the 2025 Oscar nominees. Emilia Pérez lea ds the 2025 Oscar nominations, which were revealed Thursday morning. The film scored 13 noms, setting a record for a non-English ... The n ominees for the 97th Academy Awards have been announced. Leading the way is Jacques Audiard's "Emilia Pérez," a Spanish language, French-made film, with 13 nominations, including best picture and best actress for Karla Sofía Gascón, making her the first openly trans actor ever nominated for an The 2025 Oscars ceremony is still set to take place on March 2, with Conan O'Brien hosting. To find out who might be takin g the stage as a winner on March 2, read on for the full list of ... The 2025 Oscar nominations have been announced, with Emilia Pérez leading the way with 13 nominations, including for Best Picture and Best Actress. This Spanish language, French-made film has set a record for the most nominations for a non-English film. The nominees for the 97th Academy Awards have been revealed, with other top contenders for Best Picture and Best Actress, including Demi Moore. The 2025 Oscars ceremony will still take place on March 2, with Conan O'Brien hosting. To find out who might be taking the stage as a winner on March 2, you can refer to the full list of 2025 Oscar nominees.

> Finished chain.

In [80]: print(response['output'])

The 2025 Oscar nominations have been announced, with Emilia Pérez leading the way with 13 nominations, including for Best Picture and Best Actress. This Spanish language, French-made film has set a record for the most nominations for a non-English film. The nominees for the 97th Academy Awards have been revealed, with other top contenders for Best Picture and Best Actress, including Demi Moore. The 2025 Oscars cer emony will still take place on March 2, with Conan O'Brien hosting. To find out who might be taking the stage as a winner on March 2, you can refer to the full list of 2025 Oscar nominees.

In []: