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In [1]: from langchain_community.tools import ArxivQueryRun,WikipediaQueryRun
from langchain_community.utilities import WikipediaAPIWrapper, ArxivAPIWrapper

In [2]: # 1. tool: arxiv
api_wrapper=ArxivAPIWrapper(top_k_results=5,doc_content_chars_max=500)
arxiv=ArxivQueryRun(api_wrapper=api_wrapper,arxiv_description="Query arxiv papers")
print(arxiv.name)
arxiv

In [3]: arxiv.invoke("Attention is all you need")

Out[3]: "Published: 2017-07-27\nTitle: Attention Is All You Need But You Don't Need All of It For Inference of Large Language Models\nAuthors: Georgy Yudin, Ghetondji J-S Donovan, J esha Radhakrishnan\nAbstract: Models for natural language processing (NLP) and machine learning (ML) have achieved remarkable success in recent months, and serving models with low latencies remain challenging even to the quadratic input length\nComplexity of the attention layers. In this work, we investigate the effect of\nropping MLP and attention layers at inference time."
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In [4]: # 2. tool: wikipedia
api_wrapper=WikipediaAPIWrapper(top_k_results=5,doc_content_chars_max=500)
wiki=WikipediaQueryRun(api_wrapper=api_wrapper,wiki_description="Query wikipedia")
print(wiki.name)
wiki

Out[4]: "wikipedia"

In [5]: from dotenv import load_dotenv
load_dotenv()

import os
os.environ["TAVILY_API_KEY"] = os.getenv("TAVILY_API_KEY")
os.environ["GROQ_API_KEY"] = os.getenv("GROQ_API_KEY")

In [6]: ## tavily search tool
from langchain_community.tools.tavily_search import TavilySearchResults
tavily=TavilySearchResults()

In [7]: tavily.invoke("provide me the recent AI news?")

Out[7]: [{"title": "Artificial Intelligence News - ScienceDaily",
"url": "https://www.sciencedaily.com/news/computers/path/artificial-intelligence/",
"content": "Artificial Intelligence News\nTop Headlines\n\nLatest Headlines\n\nEarlier Headlines\n\nThursday, May 8, 2025\n\nWednesday, May 7, 2025\n\nTuesday, May 6, 2025\n\nMonday, May 5, 2025\n\nSunday, May 4, 2025\n\nFriday, April 25, 2025\n\nThursday, April 24, 2025\n\nWednesday, April 23, 2025\n\nTuesday, April 22, 2025\n\nMonday, April 21, 2025\n\nSunday, April 14, 2025\n\nWednesday, April 9, 2025\n\nTuesday, April 8, 2025\n\nMonday, April 7, 2025\n\nSunday, March 26, 2025\n\nTuesday, March 25, 2025 [...] Thursday, January 16, 2025\n\nFriday, December 27, 2024\n\nThursday, December 26, 2024\n\nWednesday, December 19, 2024\n\nTuesday, December 18, 2024\n\nMonday, December 17, 2024\n\nSunday, December 16, 2024\n\nFriday, December 6, 2024\n\nThursday, December 4, 2024\n\nWednesday, December 2, 2024 [...] Wednesday, March 19, 2025\n\nTuesday, March 18, 2025\n\nMonday, March 17, 2025\n\nSunday, March 6, 2025\n\nWednesday, March 5, 2025\n\nTuesday, March 4, 2025\n\nMonday, February 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