

Hands-on: Exploring Tools in LangChain

Instructor

Dipanjan Sarkar

Head of Community & Principal AI Scientist at Analytics Vidhya

Google Developer Expert - ML & Cloud Champion Innovator

Published Author



What are Tools?



TOOLS



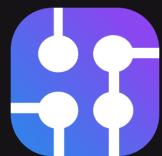
ArXiv



DuckDuckGo



Google



SerpAPI



Tavily



SQL



Wikipedia

- Tools are interfaces that an agent, a chain, or a chat model / LLM can use to interact with the world
- In LangChain, tools consists of the following components:
 - Tool name
 - Tool description
 - JSON schema of tool inputs
 - Functions to call
 - Result format

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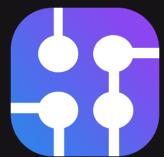
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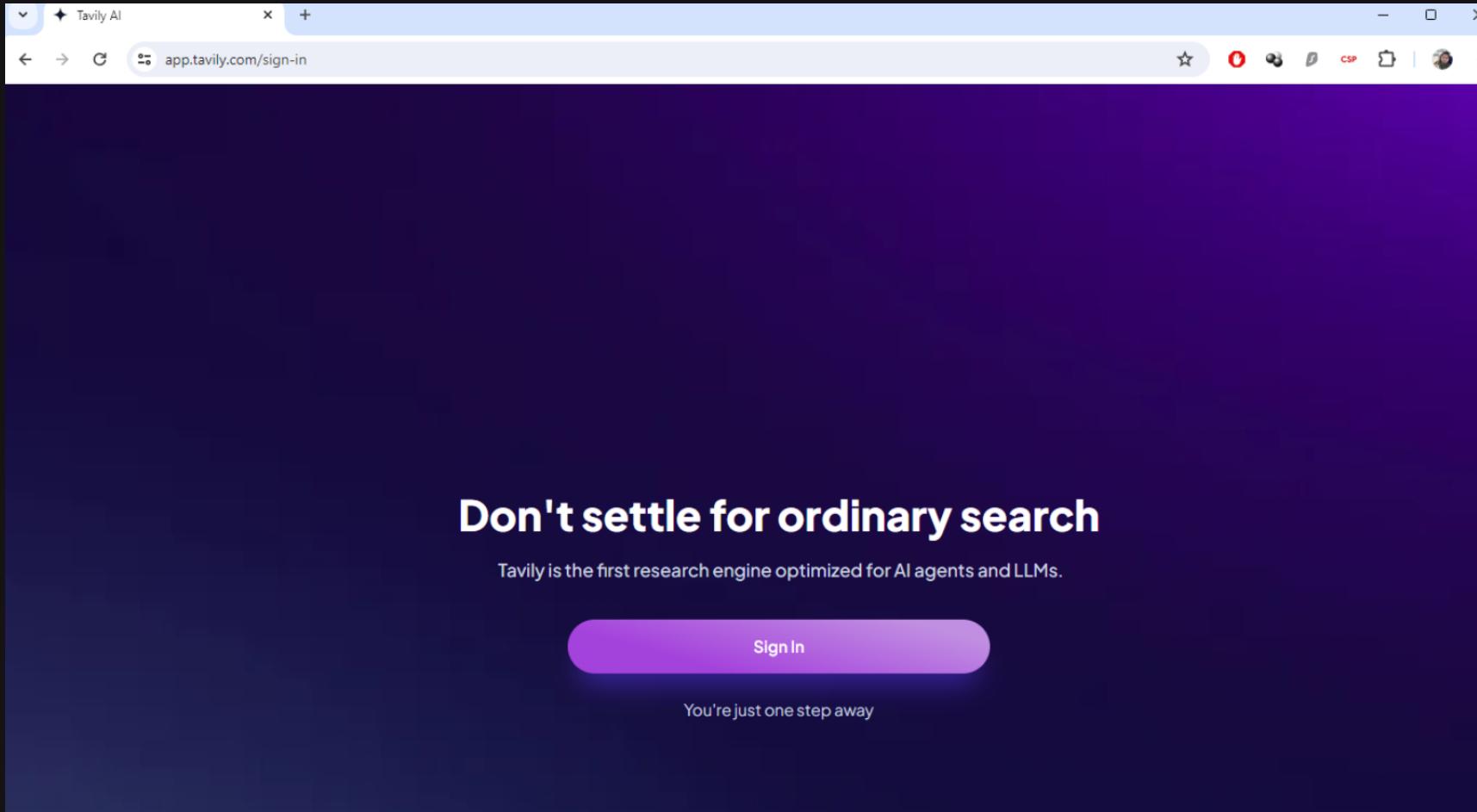
SQL



Wikipedia

- LangChain has interfaces with many popular tools including:
 - ArXiv
 - Tavily Search
 - DuckDuckGo Search
 - Wikipedia
 - Google Search API - SerpAPI
 - And many more...
- You can build your own custom tools, modify existing tools and connect them to LLMs

Using Tavily AI Search - Sign In for an account



Using Tavily AI Search - Get your API Key

The screenshot shows the Tavily AI Overview page. On the left, there's a sidebar with links: Overview, Research Assistant, Research Reports, API Playground, and Documentation. The main area has a header "Pages / Overview" and "Overview". Below that is a large purple box titled "CURRENT PLAN" with "Researcher" inside. It shows an "API Limit" of "0 / 1,000 Requests" and a "Manage Plan" button. Underneath is a section titled "API Key" with the text: "The key is used to authenticate your requests to the [Research API](#). To learn more see the [documentation page](#)." A red box highlights the input field containing the API key "tvly-*****" and the "Regenerate" button. At the bottom, there's a message "Have any questions, feedback or need support? We'd love to hear from you!" and a "Contact us" button.

Thank You
