Advanced Research Assistant

Conduct multi-source academic research with enhanced quality metrics, source validation, and WolframAlpha integration.

Settings

LLM API Provider

openrouter

Research Query

OpenAI Agents SDK

Research Question (Optional)

Optional: Specify a precise research question...

Conduct Research

Clear

Example Queries with Research Questions

Research Query	Research Question (Optional)
Quantum computing applications in cryptography	What are the most promising applications of quantum computing in modern cryptography?
Recent advances in CRISPR gene editing	What are the latest breakthroughs in CRISPR gene editing technology and their potential impacts?

Research Query	Research Question (Optional)
The impact of social media on teenage mental health	How does social media use affect the mental health and well-being of teenagers?
Progress in fusion energy research since 2020	What significant advancements have been made in fusion energy research and development since 2020?

Research Report: OpenAI Agents SDK

Research Question: What is the OpenAI Agents SDK and what are its capabilities?

Quality Assessment

Overall Quality Score: 0.20/1.00

Metric	Score	Rating
Overall Quality	0.20	★☆☆☆☆
Source Diversity	0.00	☆☆☆☆☆
Academic Ratio	0.00	☆☆☆☆☆
Verification Score	0.33	★★☆☆☆
Process Score	1.00	★★★★★
Source Recency	0.20	★☆☆☆☆
Avg. Credibility	0.00	☆☆☆☆☆
Avg. Confidence	0.00	☆☆☆☆☆

Research Methodology: Tool-based Agent with Multi-Source Verification **Timestamp:** 2024-02-08T21:28:40.201228

Summary

The research aimed to gather information about the OpenAI Agents SDK. Initial web searches and Wikipedia lookups did not yield specific results for an "OpenAI Agents SDK." Further investigation suggests that there is no officially recognized SDK with this exact name. However, OpenAI offers various APIs and libraries that facilitate agent development, such as the OpenAI API (including Assistants API) and libraries like LangChain which interact with OpenAI models. The findings suggest that while a dedicated "Agents SDK" doesn't exist, the broader ecosystem provides ample tools for building AI agents using OpenAI's technologies.

Step 1: Understand and Clarify Query

Objective: Analyze the research query, identify key concepts, and clarify any ambiguities. Define the specific research question to be answered. **Tools Used:**

Clearly defined research question and initial research objectives.

Step 2: Initial Research

Objective: Gather preliminary information and context on the topic. Use broad web searches and Wikipedia to get an overview and identify key areas. **Tools Used:** web_search, wikipedia

Summary of background information, identification of key terms and concepts, and initial sources.

Step 3: Academic Literature Review

Objective: Explore academic databases for in-depth, peer-reviewed research. Use arXiv and Google Scholar to find relevant papers and scholarly articles. **Tools Used:** arxiv_search, google_scholar

List of relevant academic papers, key findings from these papers, and identification of leading researchers or institutions.

Step 4: Factual Verification and Data Analysis

Objective: Verify key facts, statistics, and data points using reliable sources like Wolfram Alpha and targeted web searches. Cross-reference information from different sources to ensure accuracy. **Tools Used:** web_search

Verified facts and data, resolution of any conflicting information, and increased confidence in research findings.

Step 5: Synthesis and Report Generation

Objective: Synthesize all gathered information into a coherent and structured research report. **Tools Used:**

Comprehensive research report in JSON format, including summary, detailed steps, sources, quality score, and uncertainty areas.

Areas of Uncertainty

- The exact functionalities and scope envisioned for an 'Agents SDK' by the user remain unclear. While OpenAI offers tools for agent development, the specific