Source-Based Analysis in NotebookLM: A Differentiated Approach to Al-Powered Information Synthesis

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The Al Crossroads

Understanding the two fundamental paths of AI information analysis: The focused, verifiable world of source-grounded tools versus the vast, creative expanse of general chatbots.

Two Philosophies of Al

The core difference between NotebookLM and general Al chatbots lies in their "source of truth." This single distinction dictates their capabilities, reliability, and ideal use cases.



NotebookLM: Grounded Expert

Primary Info Source: Operates in a "closed loop," using only user-provided documents (PDFs, URLs, Docs).

Accuracy & Reliability: High. Significantly reduces hallucinations by strictly adhering to your sources.

Transparency: High. Provides clear, in-line citations linking directly to source passages for easy verification.

Typical Use Cases: Deep dives, synthesizing research, content creation from specific materials, and organizing notes.

Data Privacy: Explicit. User data (uploads, queries) is not used for training the model.



General Chatbot: Broad Creator

Primary Info Source: Vast, pre-trained datasets from across the public internet.

Accuracy & Reliability: Lower. Inherently prone to "hallucinations" due to a lack of specific grounding.

Transparency: Low. Outputs are based on learned patterns, typically without verifiable references.

Typical Use Cases: Blank-page creation, brainstorming, fast ideas, and general-purpose conversation.

Data Privacy: Varies. User interactions may be used for future model training and refinement.

The Hallucination Problem

A key challenge for general AI is "hallucination"—generating plausible-sounding but factually incorrect information. This systemic issue is what source-grounded tools are designed to prevent.

Primary Causes

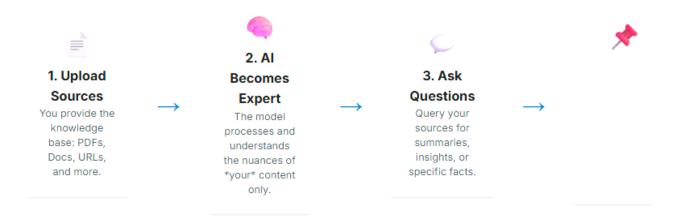
- Training data is noisy, biased, or outdated.
- Lack of real-world, common-sense understanding.
- · Absence of grounding in specific, verifiable facts.
- Inherent "creativity" prioritizes fluency over accuracy.

Potential Consequences

- · Spreading of misinformation and false narratives.
- · Erosion of user trust in AI systems.
- Impaired judgment in critical decisions (finance, health).
- · Potential for legal and public relations liabilities.

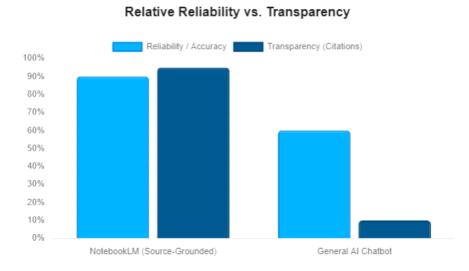
How Source-Grounded Al Works

NotebookLM follows a "closed-loop" process, transforming from a general model into a personalized expert on your specific information. This ensures relevance and factual grounding.



Feature Showdown: Reliability & Transparency

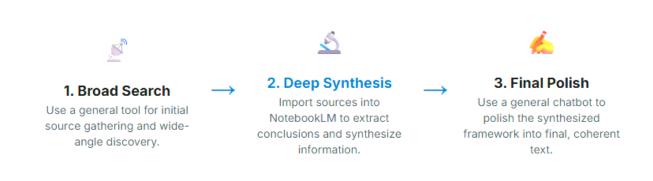
When comparing core features, the trade-off becomes clear. NotebookLM prioritizes verifiable accuracy, while general chatbots offer broader but less reliable creativity.



This chart visualizes the relative levels of reliability and transparency. Source-grounded tools offer high factual accuracy and verifiable citations, while general tools are less reliable and non-transparent by design.

The Modern Al Workflow

Instead of choosing one tool, savvy users create a workflow that leverages the unique strengths of different AI models for optimal results.



Choose the Right Tool for the Job

For deep, verifiable research where accuracy is paramount, a source-grounded tool is your indispensable partner. For broad brainstorming and creative first drafts, a general chatbot excels. Understanding the difference is key to effective Al integration.

How It Works: A Visual Guide

To understand their outputs, we must first understand their processes. This section visually breaks down the distinct operational workflows of source-grounded and general AI, revealing why one excels at precision and the other at breadth.

NotebookLM: The Grounded Workflow

1. Upload Sources: You provide the knowledge base (PDFs, Docs, URLs).



2. Model Becomes Expert: The AI processes and understands *only* your content.



Ask Questions: Query your sources for summaries, insights, or facts.



4. Receive Cited Answers: Get responses linked directly to source passages.

General Chatbot: The Generative Workflow

 Ask Question: You provide a prompt or query.



2. Search Vast Data: The AI scans its immense internal knowledge from internet training.



Recognize Patterns: It identifies statistical patterns related to your query.



4. Generate Uncited Answer: It produces a fluent, predictive response without direct sources.

Executive Summary

NotebookLM introduces a paradigm shift in AI-powered information synthesis through its unique source-based analysis. Unlike general AI chatbots that draw from vast, undifferentiated internet training data, NotebookLM operates exclusively on user-provided sources, effectively transforming a general Large Language Model (LLM) into a highly specialized, context-aware research assistant. This fundamental difference significantly enhances factual accuracy, mitigates the risk of hallucinations, and provides unparalleled transparency through explicit citations. While general chatbots excel at broad information retrieval and creative generation, NotebookLM's grounded approach makes it an indispensable tool for deep-dive research, content creation, and any application where verifiability and precision are paramount, representing a strategic move towards specialized, trustworthy AI solutions.

Introduction: Navigating the Al Information Landscape

The rapid evolution of Artificial Intelligence (AI) has introduced a diverse array of tools, each offering unique capabilities for information processing and content generation. From broad-spectrum conversational agents to highly specialized analytical platforms, understanding the underlying operational models of these AI systems is crucial for leveraging their full potential and mitigating inherent risks. This report delves into NotebookLM, an AI tool that distinguishes itself through its "source-based analysis," and contrasts it with the operational mechanics and output characteristics of general AI chatbots.

The proliferation of AI tools necessitates a nuanced understanding of their fundamental operational differences. While general chatbots offer broad utility and creative capabilities, their inherent limitations, particularly the propensity for generating fabricated or misleading information, often referred to as "hallucinations" ¹, and a lack of specific contextual grounding, create a significant demand for more reliable and precise AI solutions in professional and academic settings. NotebookLM directly addresses these shortcomings by adopting a "source-based analysis" model. This is not merely a feature difference but a strategic design choice to overcome general LLM weaknesses by trading broad, undifferentiated knowledge for deep,

verifiable expertise within a user-defined corpus. This trend towards specialization reflects a maturing AI landscape where tools are increasingly tailored to specific workflows, prioritizing accuracy and verifiability for targeted applications.

NotebookLM: The Power of Source-Grounded Analysis

NotebookLM is positioned as a sophisticated "research and thinking partner, grounded in the information you trust". Its core strength lies in its ability to synthesize and analyze information exclusively from materials supplied by the user, setting it apart from conventional AI chatbots.

Defining Source-Based Analysis: User-Controlled Information as the Foundation

NotebookLM excels at workflows involving the synthesis of information dispersed across multiple documents.⁴ Its fundamental principle is that it "will only search through the sources that you provide it," contrasting sharply with general chatbots that "find an answer from the ether of the internet".⁵ **This means the AI becomes an** "expert on your uploaded content" ⁶, providing summaries, explanations, and insights that are derived solely from your specific sources.⁶ This creates a "closed loop" system where the user dictates the knowledge base.⁷

How NotebookLM Works: From Source Upload to Personalized AI Expertise

Users initiate a project by uploading relevant documents, which can include a wide array of formats such as PDFs, Google Docs, Web URLs, YouTube videos, and audio files.³ Once sources are in place, the underlying Gemini model (Gemini 2.0) processes them, generating an overall summary and identifying interesting connections between topics.³ NotebookLM then transforms into a "personalized AI expert" in that specific body of information ³, capable of answering questions or tracking down references based

entirely on the supplied materials.⁴ The platform is designed to handle a substantial volume of information, allowing users to import up to 50 sources (each up to 500,000 words) in the free tier, with expanded capacity in NotebookLM Plus.⁴ A powerful feature allows users to convert their own notes or saved chat responses into new sources, enabling the model to be grounded

exclusively in that curated material for further analysis or transformation.4

This operational model suggests that NotebookLM represents a specialized and highly effective application of Retrieval Augmented Generation (RAG). RAG is an advanced method for chatbot response generation.⁸ The explicit connection of NotebookLM to materials from a "RAG++" course ⁹ further reinforces this architectural approach. When combined with the consistent emphasis that NotebookLM retrieves information

only from user-provided sources to answer questions and generate content ³, it becomes clear that NotebookLM's "source-based analysis" is a specific, highly constrained implementation of the RAG paradigm. Unlike general RAG systems that might retrieve from a broad, general knowledge base (like the internet), NotebookLM's retrieval component is strictly limited to the user's uploaded documents. This architectural choice is the direct causal factor for NotebookLM's enhanced factual accuracy and significantly reduced hallucination rate, as the LLM is consistently "grounded" in verifiable external data rather than relying solely on its internal, pre-trained knowledge. This effectively transforms a general-purpose LLM into a domain-specific expert by providing a tightly controlled and auditable knowledge base.

Key Features Enhancing Grounding: Citations, Document-Specific Understanding, and Data Privacy

A cornerstone of NotebookLM's reliability is its commitment to transparency and verifiability. It explicitly states, "See the source, not just the answer" 3, by providing "clear citations for its work, showing you the exact quotes from your sources". These are "in-line citations that link directly to relevant passages in the original documents" 6, allowing users to "easily verify the information and trace it back to its source" 6, thereby saving significant fact-checking time.

The AI's understanding is characterized as "document-specific expertise".⁶ This means it comprehends the "nuances and context of your materials" ⁶, preventing the introduction of irrelevant or contradictory information from external sources that are not part of the user's uploaded corpus.⁶ The ability to convert user-curated notes or saved chat responses into new sources ⁴ further empowers the user, allowing them to refine and expand the AI's specific knowledge base, ensuring the model's responses are exclusively grounded in their meticulously prepared material. Furthermore, Google

emphasizes a strong commitment to user privacy, stating that it "do[es] not use your personal data to train NotebookLM," explicitly including "your source uploads, queries, and the responses from the model for training". This commitment builds trust by assuring users their proprietary or sensitive information remains private.

Benefits: Precision, Contextual Relevance, and Enhanced Factual Accuracy

NotebookLM "significantly reduces the likelihood of producing fabricated or misleading information" ⁶ by "staying faithful to your uploaded sources". ⁶ This leads to "source-backed insights". ⁶ It is ideal for "deep dives, context precision, and pulling signal from chaos" ⁷, enabling users to synthesize complex information with high accuracy. The tool streamlines research and note-taking, providing "precise answers" and significantly improving workflow efficiency. ⁶ Beyond basic Q&A, NotebookLM generates various structured outputs, including concise summaries, connections across sources, Audio Overviews (podcast-style deep dives), Mind Maps (interactive categorical breakdowns), Study Guides (quizzes, essay questions, glossaries), FAQs, and Timelines. ⁵

By strictly grounding its responses in user-provided, verifiable sources and offering explicit citations, NotebookLM fundamentally shifts the locus of control and trust from the AI model's opaque, vast training data to the user's auditable corpus. This transparency empowers users to verify information, understand the AI's reasoning path by tracing it back to the source, and even actively tailor the AI's knowledge base by converting their own notes into sources.⁴ This direct control and verifiability are crucial for fostering user confidence, particularly for high-stakes professional and academic applications where factual accuracy, accountability, and data privacy ³ are non-negotiable. This contrasts sharply with the "black box" nature of general LLMs, which often produce unverified outputs and whose training data usage policies may be less explicit, thereby limiting their applicability in critical decision-making contexts.

General Al Chatbots: Broad Knowledge and Generative Capabilities

General AI chatbots, such as Gemini or ChatGPT, operate on a fundamentally different principle, designed for broad conversational utility and expansive knowledge retrieval.

Operational Mechanics: Leveraging Vast Training Data, NLP, and Machine Learning

At their core, AI chatbots utilize Artificial Intelligence (AI), Natural Language Processing (NLP), and Machine Learning (ML) techniques to comprehend and respond to human text or voice inputs.⁸ Their functionality hinges on "access to a vast amount of data to function effectively," which includes pre-existing datasets, customer support logs, and other diverse textual training data.⁸ Some advanced chatbots can also integrate with external data sources for real-time information.⁸

NLP is critical for interpreting human language, enabling processes like tokenization (breaking text into words), part-of-speech tagging, named entity recognition, and sentiment analysis to accurately decipher user intent. ML algorithms, particularly neural networks and deep learning, allow these chatbots to learn from this extensive data, recognize patterns, and make predictions or decisions autonomously. Many also employ reinforcement learning to continuously refine their responses based on user feedback.

Response Generation: Pattern Recognition and Predictive Text

Chatbots generate responses by analyzing input data, running it through complex algorithms, and producing natural-sounding replies. They often scan vast databases of information, including customer support documentation and past conversations, to identify text patterns similar to the user's inquiry, enabling them to deliver the most appropriate answer quickly. Prominent examples include Apple's Siri, Amazon's Alexa, and Google Assistant, which are powered by advanced generative algorithms.

Response generation can occur through various techniques, including rule-based systems, template-based responses, or more advanced methods like Retrieval Augmented Generation.⁸

Inherent Challenges: The Phenomenon of Hallucinations and Their Implications

A significant concern with general LLMs is "hallucination," defined as the generation of "false or biased information" that is "coherent and grammatically correct but factually incorrect or nonsensical". This arises when the LLM's inherent "creativity" leads it to generate fabricated or exaggerated details.

Hallucinations stem from several factors, including limitations in training data (incomplete, noisy, or outdated datasets), the AI model's "lack of understanding of the real world" or common sense reasoning abilities, vague or ambiguous input questions, overfitting or underfitting the training data, inherent biases present in the training data, the "absence of grounding" in specific, verifiable real-time data unlike human experience, and limitations in token processing which can lead to the model losing crucial details in complex topics. Hallucinations can be "subtle and difficult to detect because the model may weave correct facts together with fabricated details," making inaccuracies hard to spot.

The consequences of hallucinations are severe. They can lead to the spreading of false information and misinformation ¹, impaired judgment, and erroneous decisions, particularly in critical fields such as news, healthcare, legal advice, and finance.² They also risk loss of user trust, negative public relations, and potential legal liabilities, as demonstrated by the airline lawsuit example where a chatbot provided inaccurate information about bereavement fares.¹ It is crucial to note that hallucinations "cannot be completely eliminated" ², necessitating human review and cross-referencing for critical applications.

The extensive list of causes for hallucinations reveals that these are not merely "bugs" but fundamental limitations stemming from the core design and training objectives of general LLMs. These models are primarily optimized for generating coherent, fluent, and broadly plausible text across an immense range of topics by learning statistical patterns from vast, undifferentiated datasets. This inherent pursuit of breadth and "creativity" ¹ inevitably compromises factual precision when specific, verifiable grounding is absent.² The causal relationship is clear: the architecture designed for

wide-ranging generative capabilities, coupled with a lack of real-world understanding and specific data grounding, directly leads to the propensity for factual errors and hallucinations. This implies a critical trade-off where general utility comes at the cost of guaranteed factual accuracy, making human oversight indispensable for critical applications.

Core Differentiators: NotebookLM's Grounding vs. Chatbot Al's Breadth

The fundamental distinction between NotebookLM and general AI chatbots lies in their approach to information sourcing, which cascades into differences in reliability, transparency, and optimal application.

Source of Truth

NotebookLM's "source of truth" is a strictly user-defined corpus.³ This includes uploaded documents (PDFs, Google Docs), web pages, YouTube videos, and audio files. It operates in a "closed loop" ⁷, meaning it confines its knowledge to the provided materials. In contrast, general chatbot AI relies on vast, pre-trained datasets encompassing a wide array of internet knowledge, customer logs, and other public data.⁵ It searches the "ether of the internet" ⁵ or its internal knowledge base derived from that training data.

Accuracy and Reliability (Hallucination Mitigation)

NotebookLM significantly reduces the risk of hallucinations by enforcing "strict adherence to those sources as it is 'grounded' in them". While generally "quite reliable," it is "not perfect" 11; occasional inaccuracies and

some hallucinations are possible, particularly for complex reasoning, calculations, or if the provided sources are inconsistent.⁶ A notable nuance is the observation that it "Sometimes it uses external sources without explicitly stating them" ¹¹, indicating a need for user vigilance despite its primary grounding. This behavior, while seemingly contradictory to its core design, highlights that even highly grounded systems may have edge cases or limitations, making user verification important. General chatbot AI, conversely, is inherently prone to hallucinations due to its design, reliance on vast and undifferentiated training data, and lack of real-time grounding.¹ Hallucinations are a

systemic issue that "cannot be completely eliminated".2

Transparency and Verifiability

NotebookLM offers high transparency. It explicitly provides "clear citations" and "in-line citations" that link directly to the relevant passages within the user's original source documents.³ This allows for easy and immediate verification of generated information.⁶ General chatbot AI typically offers low transparency regarding the specific source of its information. Outputs are generated based on learned patterns from its vast training data, often without specific, verifiable references, making fact-checking difficult.

Purpose and Application

NotebookLM is designed for "deep dives, context precision, and pulling signal from chaos". Its utility is centered on synthesizing information, conducting focused research, organizing notes, and structuring thoughts for specific projects. It generates highly structured outputs tailored for analytical and research workflows. General chatbot AI is best suited for "blank-page creation, fast ideas, and wide-angle thinking". It excels at broad information retrieval, creative content generation, brainstorming, and general conversational assistance across a wide range of topics. It

Data Usage and Privacy

NotebookLM explicitly states that it "does not use your personal data, including your source uploads, queries, and the responses from the model for training". This commitment to privacy is a key differentiator for users handling sensitive information. Data usage and privacy policies for general chatbot AI vary significantly by provider. While many have robust privacy measures, some models may learn and improve from user interactions, potentially using query data for future training or model refinement.

Table 1: Key Differentiators: NotebookLM Source-Based Analysis vs. General Al Chatbot

Feature	NotebookLM (Source-Based Analysis)	General Al Chatbot
Primary Info Source	User-provided documents (PDFs, Google Docs, URLs, videos, audio); operates in a "closed loop" ³	Vast, pre-trained datasets from the internet, customer logs, and public data; searches the "ether of the internet" ⁵
Accuracy & Reliability	High; significantly reduces hallucinations by strict adherence to sources. ⁶ "Quite reliable but not perfect". ¹¹	Lower; inherently prone to hallucinations due to broad training data and lack of specific grounding. ¹
Transparency	High; provides clear, in-line citations linking directly to source passages. ³	Low; outputs generated from learned patterns, typically without specific, verifiable references.
Typical Use Cases	Deep dives, context precision, synthesizing information, focused research, structured content generation (e.g., study guides, mind maps). ⁵	Blank-page creation, fast ideas, wide-angle thinking, broad information retrieval, creative content generation. ⁷
Data Privacy	Explicitly states user data (uploads, queries, responses) is <i>not</i> used for training. ³	Policies vary; some models may use user interactions for future training or refinement. ⁸

This table provides a concise, side-by-side comparison of the critical attributes discussed, distilling complex information into an easily digestible format. It visually reinforces the main points of differentiation, making the core message of the report more impactful and memorable. For professionals such as researchers, analysts, or project managers, such a table serves as a practical decision-making tool. It enables them to quickly assess which AI tool is most appropriate for a given task based on their specific needs for factual accuracy, transparency, data handling, and the nature of the inquiry (deep-dive vs. broad ideation).

Strategic Application: When to Use Each Tool

Understanding the distinct operational models of NotebookLM and general AI chatbots allows for strategic application, optimizing workflows by leveraging each tool's strengths.

Optimizing Workflows with Specialized Al

NotebookLM is particularly effective for scenarios where users "know the topic, you've gathered a broad array of sources, and now you need to synthesize them and start extracting conclusions". It is highly useful for "speeding up work, putting together texts, and reviewing". Its capabilities make it an invaluable asset for power study, organizing thinking, sparking new ideas, content creation, academic analysis, professional reports, marketing insights, and generating writing outlines. For instance, a common workflow might involve using a broad search tool like Perplexity for initial source gathering, then transitioning to NotebookLM for synthesis and framework extraction, before finally using a general chatbot like ChatGPT for polishing the framework into coherent text, and other LLMs like Gemini or Claude for checking missing elements.

Acknowledging NotebookLM's Current Limitations

While powerful, NotebookLM is "not yet fully reliable". Users should exercise caution and "not use NotebookLM to correct assumptions or for complex reasoning". Caution is also advised when learning new information or performing calculations, as it can make errors in these areas. The tool may struggle with putting together information from different sources to build complex reasoning, a subtle but important distinction from simply summarizing or answering questions within provided sources. Occasional inaccuracies and format problems have also been noted.

The limitations of NotebookLM (e.g., complex reasoning, calculations, occasional inaccuracies despite grounding ¹¹) and the strengths of general chatbots (e.g.,

blank-page creation, broad ideas ⁷) suggest that these tools are not mutually exclusive but rather complementary. The optimal workflow often involves leveraging each tool for its specific strengths, as exemplified by the suggested workflow. ⁷ This indicates a broader trend where users will build "AI toolkits" tailored to different stages and requirements of their information processing tasks, moving beyond the idea of a single, all-encompassing AI solution. This fosters a more nuanced understanding of AI utility, emphasizing strategic integration over singular reliance.

Conclusion: A New Paradigm for Knowledge Work

NotebookLM's source-based analysis represents a significant advancement in AI-powered information processing, offering a compelling alternative to general AI chatbots for tasks demanding high factual accuracy, verifiability, and contextual precision. By strictly confining its operations to user-provided sources and providing explicit citations, NotebookLM addresses the critical challenge of hallucinations inherent in broader LLMs, fostering a new level of trust and control for users.

This specialized approach positions NotebookLM as an indispensable tool for deep research, academic study, professional analysis, and content creation, where the integrity and traceability of information are paramount. The emergence of such grounded AI solutions signifies a strategic evolution in the AI landscape, moving beyond generalized capabilities towards a suite of specialized tools designed to meet specific, high-stakes demands of knowledge workers. While general chatbots continue to excel in broad ideation and creative generation, NotebookLM carves out a vital niche by offering a verifiable and privacy-centric AI assistant, thereby shaping a future where AI integration is both powerful and trustworthy.

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