

# Al SEO in 2025: Optimizing Your Website for GPT-4o, Claude 4, Gemini 2.5 & More

Today's Al landscape is redefining search and content discovery. Instead of traditional keyword queries yielding a list of blue links, users can ask complex questions in natural language and receive direct, synthesized answers compiled from multiple web sources. This paradigm shift (often termed Generative Search or conversational Al) means your website's content might be consumed and summarized by Al chatbots before a user ever visits your site. Ensuring these Al systems understand and accurately represent your content is now a critical part of SEO in 2025.

In this report, we'll examine how the leading large language models (LLMs) of mid-2025 access and use web content, and how the emerging **Ilms.txt** standard can help you influence these models to your advantage. We'll also cover best practices for creating an Ilms.txt "AI instruction manual" for your site, and why early adoption could give you a strategic edge.

# The New Al Search Landscape

Al-powered assistants like ChatGPT, Google's Gemini, Anthropic's Claude, and others have become **native web browsers**. They can search the internet in real time and deliver answers that *blend information from various sites* into a single conversational response. For example, OpenAl's ChatGPT (using the GPT-40 model) will now automatically perform web

searches for up-to-date info when needed, then present an answer with references to the sources. Likewise, Anthropic's Claude 4 can fetch the latest data via its built-in web search feature and **provides direct citations** for any information it pulls.

This Al-first search experience poses new challenges for website owners:

- Attribution & Visibility: If an AI provides an answer using your content, will your brand get credit? (For instance, ChatGPT's interface now includes a "Sources" section with links to original webpages, so ensuring your content is the chosen source is key.)
- Accuracy & Control: How do you prevent Al "hallucinations" or outdated info? You
  need a way to signal authoritative, current data to the models so they don't rely on
  third-party interpretations.
- Content Prioritization: Large language models digest content differently than
  Google Search's crawler. LLMs have limited context windows and may not parse full
  HTML pages well. You must highlight what parts of your site are most important for
  them to read.

This is where **Ilms.txt** comes in. It's a new, non-traditional SEO tool that speaks directly to Al models in their own "language."

# Meet the Major Al Models of 2025 (and How They Consume Web Content)

To craft an effective AI SEO strategy, you need to understand the capabilities and behaviors of the top LLMs as of mid-2025. All of these models now have built-in web access, but they handle content and citations in slightly different ways:

# **GPT-40 (OpenAl's ChatGPT)**

GPT-4o (where the "o" stands for "Omni") is OpenAl's flagship 4th-gen model and the default brain of ChatGPT in 2025. It's a multimodal model (able to process text, images, and audio) with a massive 128k token context window. By October 2024, OpenAl integrated **ChatGPT** with web search and began rolling it out to all users. Now ChatGPT will automatically search the web when a question requires fresh information, or users can manually trigger a search. Crucially, ChatGPT's interface includes links to sources for any external information it uses; for example, clicking a "Sources" button opens a sidebar of reference links. This means GPT-4o not only *reads* your site, but might also explicitly cite it if your content is used in an answer.

**Did you know?** GPT-4o's knowledge base still has a cutoff (late 2023), but thanks to live browsing it "knows" about current events and updated pages. It essentially treats the web as an extension of its memory, fetching pages on the fly when up-to-date info is needed. This

real-time retrieval makes it more important than ever to have an Al-friendly version of your content available.

Indexing & content use: OpenAI hasn't disclosed a separate indexing bot for ChatGPT; instead GPT-4o seems to piggyback on Bing's search index or its own partnerships to retrieve results. When it visits a page, it will parse the raw HTML. If your site provides a clean, simplified format (like a text or Markdown version), GPT-4o can process it faster and more accurately. As we'll see, *Ilms.txt is exactly for this purpose*. GPT-4o's answers tend to synthesize information, so ensuring your authoritative facts are front-and-center increases the odds ChatGPT will use (and cite) *your* page over someone else's.

#### Claude 4 (Anthropic)

Claude 4 is Anthropic's latest-generation assistant in 2025, succeeding Claude 3, Claude Sonnet 3.5, and Claude Sonnet 3.7. Renowned for its extensive context and thoughtful answers, Claude now features **native web browsing** across all plans. In March 2025 Anthropic introduced Claude's web search capability (initially as "Claude 3.7") and by May it was available globally. When a user query needs current info, Claude will search the internet and even quote snippets from websites in its response. Anthropic explicitly designed this feature to *boost accuracy with real-time data* and **included direct citations** so users can fact-check the sources. In practice, Claude's answers will footnote the statements pulled from websites, similar to how Bing Chat or academic papers cite sources.

Claude is particularly powerful in digesting long texts (it supports very large context windows, reportedly 100K+ tokens) and following complex instructions. It means Claude might ingest significant portions of your site (iif you allow it) to generate an answer. Having a distilled overview (via Ilms.txt) can guide Claude to the most relevant sections. Also, because Claude prioritizes providing sources for factual claims, it will look for a *clear, authoritative statement* to cite. If your Ilms.txt file highlights a fact (e.g., "Our company was founded in 2010 and serves 5,000 customers in 12 countries"), Claude could directly pull from that and cite your site, rather than scraping an older press article about you.

**Indexing & content use:** Anthropic's documentation suggests Claude's browsing fetches pages on demand rather than maintaining its own massive index. So it will respect things like robots.txt and likely any instructions you give in an Ilms.txt (though unofficially). Because it retrieves live content, ensuring your site's important info is easily accessible (in plain text/Markdown) is vital for Claude to pick it up. Claude's answers are conversational, but with citations, so it's an opportunity to have your website be *the referenced authority* in answers your audience sees.

#### Google Gemini 2.5 Pro (Google/DeepMind)

Gemini is Google's family of next-gen Al models, which by 2025 power everything from the **Bard conversational assistant to Google's search generative experience**. The "2.5 Pro" model, introduced in early 2025, is Google's most advanced, boasting top-tier reasoning and coding abilities. Gemini is deeply integrated into Google's ecosystem. At I/O 2025, Google announced Gemini as a "universal Al assistant" across search, mobile apps, and workplace tools. In practical terms, **Gemini has full web access by default** (after all, it's built by the

world's biggest search engine). When you use Google Bard or the experimental AI Search, Gemini is the engine generating answers from web results. Like others, it provides citations: Google's AI search highlights *which sources* were used for an answer, often with linked phrases or a source list. This means if Gemini finds your content useful, users could see your page title or domain cited in the AI answer box, driving awareness and clicks.

One of Gemini 2.5's standout features is its enormous capacity: it introduced up to a **1 million token context window** for complex tasks (and Google has hinted at 2 million tokens soon). This is orders of magnitude more than most sites' content. In theory, Gemini could consume *your entire site's text* if needed. In practice, though, it will only read what it deems relevant. That's why curating an Ilms.txt matters: you can point this giant model to exactly the right pages and summaries instead of hoping it finds them via crawling.

Indexing & content use: Google likely uses its existing web index for Gemini's retrieval. Your robots.txt and schema markup already influence what Google sees; however, generative AI answers are assembled on the fly, not just pulled from the index like a search snippet. By providing a concise overview (Ilms.txt) and Markdown copies of key pages, you make it frictionless for Gemini to grab clean content from your site. Think of it as giving Google's AI a cheat-sheet (one that you wrote). While Google hasn't officially endorsed Ilms.txt as of June 2025, being prepared is wise (we'll discuss the current support status later). Google's own AI leaders have noted that models from Gemini 1.5 onward use techniques like "Mixture of Experts" for efficiency, meaning they route queries to specialized sub-models (some focused on coding, some on knowledge, etc.). Clear signals about your domain expertise (e.g. an Ilms.txt emphasizing your authority on a topic) could help Gemini's relevant 'expert' model pick up your content for that subject.

# DeepSeek R1 (Open-Source Challenger from China)

DeepSeek burst onto the scene in January 2025 with its R1 model and immediately made waves. Developed by a Chinese AI firm and released as **open-source**, DeepSeek R1 shocked the industry by matching the performance of top Western models at a fraction of the training cost. Within days, the DeepSeek chatbot app skyrocketed to #1 on the Apple App Store, even ahead of ChatGPT – a sign of both its popularity and the demand for free, uncensored AI.

**Web browsing:** Despite being open-source, DeepSeek's official assistant *does* have built-in web search functionality. Users can toggle a "Search" mode when asking DeepSeek questions, which allows the model to fetch live internet data before answering. When Search is enabled, DeepSeek will look up relevant web pages and incorporate that information to ensure responses are up-to-date. (There's also a "DeepThink (R1)" mode that shows its chain-of-thought reasoning, illustrating how it steps through a problem, albeit with a slower answer speed.)

DeepSeek's ability to search the web means it behaves much like ChatGPT or Claude in practice: if your site has content relevant to a user's query, DeepSeek might find it and use it. However, as an open model, the way it cites or references content may differ. DeepSeek's answers *currently do not consistently provide formal citations* the way ChatGPT or Claude do. It tends to blend the found information into a narrative answer. This makes it harder for

users to trace, but from an SEO perspective, it means you want **your facts and phrasing to be the ones the model picks up** (even if it doesn't explicitly link to you).

The open-source nature also means others can deploy DeepSeek in custom applications. For example, the search engine Perplexity.ai created an "uncensored" version of DeepSeek R1 for their own use. Such third-party deployments could choose to use your llms.txt if available as a resource.

Indexing & content use: DeepSeek R1 being open-source implies it doesn't have a proprietary index like Google's; instead it likely relies on API calls to search engines or a maintained index of its own. The TechTarget analysis noted DeepSeek provides web, mobile, and API access, suggesting they have infrastructure to crawl or fetch content on-demand. Also, because it's open, many community-driven indexes or datasets may include your content for DeepSeek-style models. Having an Ilms.txt could be beneficial here: anyone fine-tuning or configuring a DeepSeek instance might specifically look for Ilms.txt files to improve how the model interacts with sites. In any case, DeepSeek's rise shows that efficient, low-cost AI is here, and it's drawing from the open web like everyone else. Don't overlook it in your AI SEO plans (especially if you have a global audience – DeepSeek supports many languages and is popular in Asia).

#### Llama 4 (Meta Al's Open-Source Family)

Llama 4 is the latest generation of Meta's LLMs (released April 2025) and represents the cutting edge of *open(ish)* models. Unlike the others above, Llama 4 isn't served to end-users via a single Meta-run chatbot; rather, it's provided to developers and organizations to use under a community license. Many variations of Llama 4 exist (Meta released models nicknamed "Scout," "Maverick," and a larger "Behemoth" in training) to cater to different needs. These models are **multimodal** (text, images, video) and even use a mixture-of-experts architecture for efficiency. Notably, one Llama 4 variant (Scout) boasts an astounding 10 million token context window (meaning it can theoretically take in whole libraries of text).

While Llama 4 is extremely powerful, its relevance to SEO comes via the tools built on top of it. For instance, a third-party could build a search agent that uses Llama 4 to answer questions from a custom index of websites. Or a company might use Llama 4 internally to parse a large document repository. In the public web context, you might not have a "Llama chatbot" crawling your site on its own; instead, you'll see Llama 4 being the engine inside other products (it's part of the Meta ecosystem and also available on services like Amazon Bedrock for enterprise AI).

**Web browsing:** Out-of-the-box, Llama 4 doesn't come with a web search feature like ChatGPT or Claude have. However, because it's open, many implementations **pair Llama** with retrieval plugins or browsers. For example, developers can use open-source libraries to let a Llama-based agent search the web or specific sites. If such an agent is pointed at your website, having a neatly structured llms.txt could significantly improve its ability to find the key info.

**Indexing & content use:** Meta's Llama 4, being open weight, can be downloaded and run by anyone. That means *you* as a site owner have less visibility into who's using it to read

your content. Some may fine-tune Llama 4 on selected web data (maybe including your site if it's in a common dataset); others might use it with live crawling. The important takeaway is that Llama 4 continues the trend of **LLMs consuming content in chunks rather than indexing everything**. Providing a chunk (or a map of chunks) that you curate – again, our friend llms.txt – is a smart strategy. Also note that because it's open, Llama 4 inherits the "open source ethos" of transparency: the community has tools to read Markdown, convert HTML to markdown, etc. The llms.txt format (which is Markdown-based) is very much in line with the open-source Al world's practices. In fact, Meta's own documentation generators or the developer community could adopt llms.txt-like conventions precisely because they align with open standards.

**Meta ecosystem relevance:** In summary, Llama 4 is a foundational model mainly used in the Meta and open-source ecosystem. It might not *directly* crawl your site unless someone applies it in a crawler, but it's highly influential. By preparing your content for LLM consumption, you're not only catering to ChatGPT/Claude/Gemini, but also making life easier for anyone (or any app) using Llama 4 to interpret websites.

Model	Provider (Type)	Web Browsing?	How They Cite Sources	Context Window	Open Source?
GPT-4o	OpenAl (Proprietary)	Yes – native search mode	Shows reference links via UI sidebar	128K tokens	No
Claude 4	Anthropic (Proprietary)	Yes – "Claude with search"	Inserts citations (footnote style) in responses	Very large (100K+ tokens)	No
Gemini 2.5 Pro	Google/DeepMin d (Proprietary)	Yes – integrated into Bard & Search	Highlights sources in Al-generated answers (in SGE/Bard)	Up to 1M tokens (Pro model)	No
DeepSee k R1	High-Flyer/Deep Seek (Open Weight)	Yes – user-toggle "Search" mode	Generally blends info, no formal citations by default	~16K–32K tokens (est.)	Yes (Apache 2.0)
Llama 4	Meta AI (Open Weight)	Indirect – via third-party tools	N/A (depends on implementation – not a single interface)	1M to 10M tokens (variant-de pendent)	Yes (community license)

#### Quick Comparison of Leading LLMs (Mid-2025):

Table: Key features of major LLMs relevant to content SEO. (All these models can access web content; the difference is in how they retrieve and attribute that content. Context size indicates how much text they can process in one go – larger windows mean a greater ability to consume long pages or multiple documents at once.)

# What is Ilms.txt, and Why Does It Matter?

Given the LLM behaviors above, how can site owners influence what these models do with their content? Enter **Ilms.txt**. Inspired by the concept of robots.txt (but very different in purpose), an Ilms.txt file is essentially a **concise knowledge pack about your website** that you place at the root of your domain. It's written in plain text/Markdown and designed to be easily read by both humans *and* AI systems.

Think of Ilms.txt as *your website's executive summary for AI*. Instead of letting a chatbot blindly scrape your site and possibly get lost in irrelevant details (or misinterpret complex HTML), you provide a curated guide: what your site is about, what your key pages are, and where to find important information in a clean format. The concept was proposed by Jeremy Howard in Sept 2024 as a solution to the "context window too small / HTML too messy" problem for LLMs. By early 2025, Ilms.txt has gained significant buzz in SEO and AI circles as a potential standard for AI content optimization.

**How Ilms.txt works:** At its core, Ilms.txt is a Markdown document with a specific structure:

- A top-level **H1 title** that is the name of your site or project.
- A short description (typically in a blockquote > format) summarizing your site's purpose and key points.
- One or more sections of **detailed information** (these could be short paragraphs or bullet lists) elaborating on what your site offers, your products/services, or any crucial context an Al should know. This is your chance to mention unique selling points, target audience, or clarify things that are often misunderstood.
- One or more link lists, each preceded by an H2 heading, grouping important pages or resources. For example, you might have "## Docs" with links to your documentation pages, or "## Products" with links to product pages. Each link is given in Markdown like - [Page Title](https://example.com/page): optional description.
- An "Optional" section (literally an H2 titled "Optional") at the end for less critical links. All agents can skip this section if they have a tight context window or don't need extra detail. It's meant for supplementary info.
- The file is saved as /Ilms.txt in your website's root (and optionally an expanded version /Ilms-full.txt if you want to provide a longer form with full content of key pages).

Unlike robots.txt, which *commands* bots what not to do, Ilms.txt is more of a **helpful guide**. It doesn't enforce rules; it offers content on a silver platter. As Jeremy Howard described, it's there to "provide information to help LLMs use a website at inference time". In other words, when an AI is answering a question **right now** and your site could be relevant, it can quickly consult Ilms.txt to understand your site structure and fetch the most useful pages (preferably in Markdown form).

**Key analogy:** Robots.txt is about crawl permissions; Ilms.txt is about content comprehension. A search engine bot uses robots.txt to see where it's allowed to crawl. An LLM uses Ilms.txt to see what it should read and pay attention to.

### Ilms.txt vs. Robots.txt vs. Sitemaps: What's the Difference?

These three files serve different audiences and purposes :

- Robots.txt A text file that tells search engine crawlers (Googlebot, Bingbot, etc.)
  which URLs they can or cannot access on your site. It's about permissions and crawl
  control. (E.g., "Disallow: /private/" tells Google not to index that section.) Robots.txt is
  purely for traditional search indexing and only controls where bots are allowed to go,
  without indicating the meaning or priority of the content.
- Sitemap.xml An XML file (or files) listing the URLs on your site, often with metadata like last modified date. It's for search engine bots as well, guiding them to all your content for indexing. A sitemap is comprehensive, aiming to cover every page that might be indexed. However, a sitemap says nothing about the relative importance or context of those pages beyond a basic priority field. And it doesn't solve the LLM problem of "too much content to chew" an Al faced with a 10,000-page sitemap still doesn't know what's most relevant and can't load all that in one go.
- Ilms.txt A curated overview for Large Language Models. Located at the root like robots (e.g., yourdomain.com/Ilms.txt), but instead of crawl rules or a list of everything, it provides a focused summary and quick access pointers for Al. It's written in Markdown (easily readable text) rather than XML or a strict format. The target audience here is not search engine spiders but Al assistants and chatbots. Essentially, any LLM-based system trying to answer questions or understand the site. As such, the content is meant to be pulled at inference time, not necessarily stored in a giant index. An Al might retrieve Ilms.txt when a user asks "What does [YourCompany] do?" to get an immediate high-level answer, rather than scraping the homepage and about page blindly.

In short, **robots.txt** = "where to crawl"; **sitemap** = "what to crawl"; **Ilms.txt** = "how to **interpret and use my content.**" They complement each other. You might even include a reference to your Ilms.txt in your robots or sitemap (some have suggested adding an LLM: directive in robots.txt or a < llms> tag in sitemaps, though those aren't standardized). The Ilms.txt proposal is designed to coexist with, not replace, existing standards.

# Crafting an Effective Ilms.txt File (Best Practices)

Creating an Ilms.txt is part art, part science. You want it to be **comprehensive enough to be useful**, but **concise enough for an AI to quickly ingest** (remember, some models might only grab the first few thousand tokens). Here are best practices drawn from early guidelines and our experience working with Ilms.txt:

- Use Clear, Structured Markdown: Follow the format of a title, summary, sections, and lists. Use simple language and short sentences. An Al should be able to parse the structure at a glance. Headings (#, ##) and bullet points (-) provide visual cues to both humans and machines. Do not include fancy HTML, scripts, or anything non-text. The whole point is to remove HTML clutter.
- Include an Informative H1 and Intro: The H1 title is often just your site name or brand. The blockquote or intro paragraph immediately after should briefly state who you are and what you offer in one or two sentences. Imagine you have 30 seconds to explain your site to someone that's your intro. This helps the AI quickly answer "What is [Company]?" correctly. (For example: > We are a B2B analytics platform helping retailers track inventory in real-time.)
- Highlight Key Facts and Unique Value: In the next few lines or bullets, pull out the most important facts or messages you want AI to remember. This could include your main products or services, target customer base, years of experience, scale (e.g., "serving 5,000 customers"), or anything distinctive. Be truthful and specific. LLMs might use these as quotable facts. Avoid marketing fluff that doesn't mean anything concrete, as it won't help the AI or the user. If there are common misconceptions about your business, clarify them here.
- Prioritize Critical Pages with Descriptions: List your most important pages in the link sections, and do add a short description after each link. For example:

   [Pricing](https://example.com/pricing): Overview of product tiers and costs. These descriptions act like meta tags for the AI giving it context about what it will find if it clicks that link. Key pages usually include: About Us, Products/Services, Pricing, Contact, FAQ/Help, Blog or Resources, Documentation/API (if you have technical docs), and Policies (if relevant, like return policy or privacy). Tailor it to what questions an AI might need to answer. If users often ask bots "How much does X cost?" then your Pricing page should be highlighted with a note in Ilms.txt.
- Link to Clean Content (Markdown if possible): This is important. If you have the ability to serve a Markdown version of a page, link to that instead of the regular HTML. Jeremy Howard's proposal recommends providing.md versions of key pages precisely so that Als can retrieve them without parsing HTML. Even if you can't do that for your whole site, you might convert a few crucial pages to markdown and host them (some sites use GitHub gists or a docs subdomain for this purpose). For example, if your API documentation is a messy web page, consider providing a simplified Markdown copy and link it in Ilms.txt. The easier you make it for the AI to get pure text, the more likely it will use your content accurately.
- Keep it Updated: Treat Ilms.txt as a living document. Whenever you have a
  significant site change (new product line, rebranding, updated pricing, etc.), update
  the Ilms.txt to reflect that. An outdated Ilms.txt could mislead AI (which is exactly what
  you're trying to avoid). It's wise to review it periodically, just as you would a sitemap
  or a homepage content piece.

- Avoid Conflict with Robots/Meta-tags: If your robots.txt disallows an area that you then link in Ilms.txt, that could be counterproductive. Make sure you're not telling Al "here's a great page to read" while telling search bots "don't crawl this page." Even though LLMs might not strictly obey robots.txt (they're not search indexers), it's good practice to align these. Likewise, if you have pages with noindex or behind login, don't list them (unless you specifically want to provide content only to the Al and don't mind it being seen, but that enters a gray area). Generally, Ilms.txt should point to content that is accessible and allowed for Al to use.
- Mind the Length (Use Optional Section for Details): There is no hard rule on size, but remember some models might truncate very large files. A good rule-of-thumb is to keep Ilms.txt under a few thousand words. If you find it growing too detailed, move less critical bits to an "## Optional" section. That signals to an AI, "Use this if you have room, otherwise you can skip." For example, a software project might put links to extensive API references in Optional, whereas core guides stay in the main sections.
- Quality Over Quantity: Don't list every single page of your site. This is not a sitemap.
  Only include what truly matters or what you'd want an AI to read first. If your site has
  500 blog posts, you might not list them all; perhaps just link to a "Blog index" page or
  a few stellar posts that define your expertise. Overloading Ilms.txt defeats its
  purpose.
- **Test It:** It's a new frontier, so testing is crucial. Use AI models (or tools that simulate them) to fetch your Ilms.txt and see how well they can answer questions using it. Some CLI tools (like Ilms\_txt2ctx mentioned in the proposal) can expand your Ilms.txt and even test certain queries. You might also simply copy your Ilms.txt content into ChatGPT (or another model) and ask, "If a user asks X, does this file help answer it?" This can reveal if you forgot to mention something important.

#### **Example of a Well-Structured Ilms.txt (Excerpt)**

To illustrate, here's a fictional example combining the elements discussed (condensed for brevity):

,,,

# Acme Analytics

> \*\*Acme Analytics\*\* is a SaaS platform providing real-time inventory tracking for retailers using Al-driven insights. We help prevent stockouts and overstock by forecasting demand.

Our solution integrates with POS systems and e-commerce platforms:

- \*\*Fast Facts:\*\* Established 2015, used by 2,000+ stores globally.
- Supports integration with Shopify, Magento, and custom APIs.
- Headquartered in New York, with offices in London and Tokyo.

## Products

- [Acme Inventory Cloud](https://acme.com/products/inventory-cloud): Dashboard for tracking stock levels, forecasts, and alerts.
- [Acme Mobile App](https://acme.com/products/mobile-app): Employee app for scanning and updating inventory on the go.
- [Acme API Docs](https://docs.acme.com/api.md): \*\*Markdown\*\* version of API documentation for developers.

#### ## Pricing

- [Pricing](https://acme.com/pricing): Plans (Free, Pro, Enterprise) with monthly/annual costs and feature comparison.

#### ## Resources

- [Case Studies](https://acme.com/resources/case-studies): How clients reduced stockouts by 30% using Acme (retail fashion, electronics examples).
- [Blog](https://acme.com/blog.md): \*\*Markdown\*\* feed of latest blog posts with inventory management tips and industry trends.

#### ## Support

- [Help Center](https://help.acme.com/llms.txt): \*(Note: help site has its own llms.txt)\* Common FAQs and troubleshooting guides.
- [Contact Us](https://acme.com/contact): How to reach our support (email, phone) and sales team.

#### ## Optional

- [Whitepaper](https://acme.com/whitepaper.pdf): Deep dive on Acme's AI forecasting (PDF, technical audience).
- [Security Policies](https://acme.com/security): Information on data protection and compliance.

#### In this example:

- The intro gives a one-line summary and a few bullet points with key facts (established date, number of users, key integrations, locations).
- Important pages are grouped logically (Products, Pricing, Resources, Support).
- We indicated where a Markdown version is used (api.md, blog.md).
- The "Optional" section includes a PDF whitepaper and a security page. Useful, but not critical for answering typical user questions.

You can see how an AI reading this file would quickly grasp what Acme Analytics does and where to find more details, *without* wading through the entire website layout or menus.

# Does Ilms.txt Really Work? (Current State and Adoption in 2025)

As of mid-2025, Ilms.txt is still an emerging standard. It's not officially mandated by any major Al provider, but it's gaining traction as a proactive measure. Importantly, no major LLM (OpenAl, Google, Anthropic, etc.) has publicly confirmed that their bots are actively checking or using Ilms.txt files. In fact, early data suggests many Al crawlers don't yet automatically request Ilms.txt (for example, Google's John Mueller noted that in server logs, current Al services don't seem to be looking for it).

However, the absence of official confirmation hasn't stopped forward-thinking organizations from adopting llms.txt:

- Tech and SEO communities are abuzz: Conferences and experts are discussing it. At BrightonSEO in April 2025, Alex Moss (Yoast co-founder) highlighted Ilms.txt as potentially "the next robots.txt" and urged early adoption, akin to implementing structured data before it was widespread. Following that, Yoast (a leading SEO plugin maker) published their own example Ilms.txt on yoast.com to set a precedent.
- Early adopters in the wild: Several high-profile companies have added Ilms.txt files.
   For example, Zapier's documentation site uses an extended Ilms-full.txt to provide detailed info to AI agents. We're also seeing a community-driven directory of sites with Ilms.txt, which as of May 2025 had 70+ sites listed (including tech blogs, SaaS companies, universities, and even government info portals). This number is growing as word spreads.
- Tools and plugins emerging: To capitalize on the trend, tools have appeared to help generate Ilms.txt. WordLift and Writesonic launched free Ilms.txt generator tools, and there are already a few WordPress plugins to assist non-technical site owners in creating a basic Ilms.txt. These automated solutions can be a starting point, but as we discussed, a handcrafted approach is likely to yield a higher-quality result (your website's nuances are hard for a generic tool to capture).

So, we have a bit of a paradox: we don't have confirmation that ChatGPT, Bard/Gemini, Claude, etc., are using Ilms.txt today, yet many experts believe it's a matter of time. It's likened to a Pascal's Wager for SEO. The cost of implementing Ilms.txt is relatively low, and the potential benefit (being ahead of competitors if/when AI engines start relying on it) is high.

Even John Mueller's skeptical take (he compared Ilms.txt to the discredited "meta keywords" tag that Google ignored) acknowledges that Ilms.txt is essentially what site owners *claim* their site is about. His point: an AI could just crawl the site and see for itself, rather than trust a single file. But remember, crawling an entire site is costly for an LLM at query time. If the Ilms.txt is provided, it **might not need to crawl further if the answer is there**. That's a big incentive for LLMs to use these files once they become common. And from the site owner side, *providing a truthful*, *helpful Ilms.txt is key*. If people start stuffing Ilms.txt with misleading

info or spam (the way meta keywords were abused), then AI companies will likely disregard it. The best outcome is if Ilms.txt becomes akin to structured data: an optional helper that, when accurate, benefits both the site and the AI by improving answer quality.

# The Case for Early Adoption

Proponents argue that adding Ilms.txt now is a smart, future-proofing move. Some reasons to consider:

- Control and Accuracy: It gives you a say in what an AI should consider important on your site. Rather than hoping it picks the right random blog post to quote, you direct it to the canonical sources of truth (your official pages). This can reduce misrepresentation and outdated info being used.
- Credit and Visibility: If Al answers cite sources, you want to be the source. By surfacing key info in Ilms.txt (and the linked pages), you increase the chances the Al finds your content as the easiest quote. This can lead to your brand being mentioned in answers across ChatGPT, Bard, and others, even if users never searched your name explicitly.
- Low Effort, Low Risk: It's not a heavy development task. It's basically writing a Markdown file. If it doesn't get used, the downside is minimal (just a few hours of content work). But if it does get used, the upside is significant. As one SEO lead put it: adopting it early could be a "forward-thinking move... Better to be prepared than play catch-up."
- Protection of Content Value: There's a broader theme of wanting to protect your content's value from being diluted by AI. If you've invested in high-quality content, you don't want AI to just paraphrase it without credit. While Ilms.txt doesn't enforce licensing, it does give you a chance to at least assert your ownership and authority over that content in a way. It's a bit like planting your flag: "If you're gonna talk about this topic, our site is the expert." This may become important if AI models later allow opting in/out of training or use. Having an Ilms.txt could potentially double as a declaration of how you want your content to be treated.

# The Skeptic View

On the other hand, some experts urge caution or at least managed expectations:

- No Guarantees: As noted, none of the big players explicitly use it yet. It could remain a niche thing or even fizzle if not widely adopted. If only a few sites have it, Al bots might ignore it altogether (since training an Al to look for a file that 99% of sites don't have could be seen as inefficient).
- Al Might Prefer the Source Content: Mueller's comment highlights a valid point. An
  Al could just crawl your actual content to verify what you claim in Ilms.txt. If the Al
  doesn't trust the file (for example, if spammers try to game it), they might build

algorithms to double-check facts against the site's content anyway. In that case, Ilms.txt becomes less a source of truth and more a guide or hint. Which is still useful, but not a magic bullet.

- Potential for Abuse: If marketers treat Ilms.txt as a new SEO meta tag to stuff with keywords or promotional language, its utility diminishes. Imagine an AI reading an Ilms.txt full of hype ("# Best Plumbing Services Ever!\n> We are the best in the world!!!" etc.), it might not use any of that because it's not factual or helpful. Worst case, AI makers might ignore the file entirely if it becomes a spam signal. The lesson: keep Ilms.txt factual and helpful, not salesy. It's for the AI's consumption, not a human sales pitch.
- Linking to Ilms.txt in answers: One funny concern raised is that if Al does heavily rely on Ilms.txt, we might see answers citing the Ilms.txt itself rather than the original pages. For instance, "According to example.com/Ilms.txt, the company was founded in 2010." That could be a weird user experience if people click that link and see a somewhat technical-looking file. Some have likened this to how Google eventually ignored the HTML <keywords> meta tag; if Ilms.txt became a crutch, Al might try to hide it as a source. This is speculative, but something to watch.

On balance, the industry sentiment is leaning towards: "It's worth implementing Ilms.txt, as long as you understand it's not a guaranteed SEO boost overnight." It's about future-proofing and positioning your site for the Al-driven web.

# **Conclusion: Preparing Your Site for the Al Era**

The way people find information is evolving fast. Instead of clicking through multiple search results, users are increasingly getting a single, conversational answer from an Al. In this new reality, ensuring that **your information is present**, **accurate**, **and credited in that answer** is the next frontier of SEO. Call it **Al SEO** or **Generative Engine Optimization (GEO)**. The Ilms.txt file is one of the first concrete tools for webmasters to engage with this frontier.

By understanding how models like GPT-4o, Claude 4, Gemini 2.5, DeepSeek, and Llama 4 consume content, we can adapt our strategies. Key takeaways:

- Make your content Al-friendly: This means clear, well-structured, up-to-date text on your pages. Reduce clutter that might confuse parsers. Implement schema markup for factual info (LLMs may indirectly benefit from it). Basically, write and design content for clarity (which helps both Al and human readers).
- Implement Ilms.txt as your Al guidebook: Even though not mandated, it's a low-risk, high-reward step. It's your chance to *speak directly to the Al* in a way you couldn't with traditional SEO alone. Use it to emphasize what matters on your site and ensure no Al misses it.
- Monitor and iterate: Keep an eye on your server logs. Do you see requests for /Ilms.txt from known AI user agents? (OpenAI's bot, Anthropic's, etc.) Watch the AI

answers related to your domain. Are they pulling from your content or not? This can give clues as to whether your optimizations are working. The AI field is dynamic; be ready to adjust as standards emerge (perhaps a future where OpenAI says "we now support Ilms.txt v1.0" or something).

Stay informed on Al SEO trends: Just like you keep up with Google algorithm updates, now we have to watch Al model updates. The fact that GPT-4.5, Claude updates, or Gemini modes can change how they find and present info means SEO isn't a one-time setup. We need to treat Al like a new class of "users" visiting our site. These come with different behaviors, but ultimately looking for good content to serve to their human users.

Finally, remember that **you don't have to tackle this alone.** Just as SEO agencies and tools evolved to assist with traditional search, new solutions are here to help with AI optimization. This report itself is hosted on *ContextKit.io*, a platform dedicated to helping businesses create and manage high-quality llms.txt files and related AI-ready content bundles. For companies that want to seize the AI SEO advantage *without* resorting to one-size-fits-all generators or expensive guesswork, **ContextKit offers a specialized service**, essentially acting as your "AI content optimizer" to produce a polished llms.txt, clean markdown docs, and a strategy tailored to your site.

**Pro Tip:** A professional touch can make a difference. Generic automation might miss nuance, and not every digital agency truly understands LLMs. ContextKit's team (Al and SEO experts) ensures your llms.txt isn't just a token checklist item, but a strategic asset. We focus on information hierarchy, context, and conciseness, so the file genuinely improves how Al perceives your site.

# Ready for AI to Accurately Represent Your Business?

Implementing the steps outlined here, from understanding the AI models to crafting your Ilms.txt, will position your website strongly in this new era of search. It is a bit of work, yes, but the payoff is that **when an AI speaks about your domain, it will speak with your voice and information**, not someone else's. Given how quickly AI adoption is growing, this is no longer a nice-to-have; it's becoming essential to maintain digital visibility.

If you're looking for a hassle-free way to get there, **ContextKit can help**. We provide expertly curated llms.txt files and AI context bundles, doing the heavy lifting for you. Our service will:

- Save you dozens of hours in auditing and summarizing content.
- Apply best practices and the latest standards (so you don't have to keep up with every update, we do that for you).
- Deliver a comprehensive, Al-ready package (your llms.txt plus clean markdown copies of key pages, with a step-by-step guide on implementation) typically in 48 hours.

• Offer human expertise augmented by AI (meaning your file is both intelligently generated and reviewed by our content strategists for quality and accuracy).

**Don't let the AI revolution leave your website behind.** Take control of your AI presence today. Whether you do it in-house or with a partner like ContextKit, the important thing is to start now, while many of your competitors are still oblivious to the changing tide. Early movers will reap the benefits of better AI rankings, more accurate chatbot referrals, and increased trust from users who get consistent answers about your brand.

#### Take Control of Your AI SEO Now

The future of search is here. It's conversational, context-driven, and powered by LLMs. Optimizing for these models goes beyond simple algorithmic tweaks. It is about ensuring your content is clearly and accurately understood.

**Ready to make your website Al-friendly?** *Stop letting Al guess about your business.* Get your professional llms.txt bundle today and lead in the era of Al-driven search.

#### Sources:

- OpenAl "Introducing ChatGPT Search" (Oct 2024)
- Anthropic "Claude can now search the web" (Mar 2025)
- TechTarget "DeepSeek explained: Everything you need to know" (Jun 4, 2025)
- Exploding Topics "DeepSeek vs ChatGPT: Main Differences" (May 28, 2025)
- Zeo Blog "What is Ilms.txt and What Does It Do?" (Feb 24, 2025)
- Ilmstxt.org (Jeremy Howard) "The /Ilms.txt file Proposal" (Sept 3, 2024)
- Delante SEO Agency "What is the Ilms.txt file and do you need it?" (May 27, 2025)
- ContextKit "The Future of AI Search: How Ilms.txt Makes You Ready" (May 15, 2025)
- ContextKit "Ilms.txt: Generator vs. Manual vs. Service?" (May 22, 2025)
- ContextKit "How to Make ChatGPT Understand Your Website" (May 19, 2025)