

Extended: Correcting Social Claims using WikiAgents

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Abstract

This proposal seeks to establish Wikipedia as the verifiable knowledge layer for artificial intelligence (AI) agent ecosystems through three innovations: 1) Protocol-agnostic claim verification gateway integrating Wikidata ProVe, 2) Decentralized attestation system for cross-agent audit trails, and 3) Creator Toolkit enabling influencers to validate multimodal content. Through agents tasked with correcting false claims online when requested, Wikimedia will grow public awareness and unlock future audiences for their platform. The 24-month initiative directly advances Wikimedia's multigenerational strategy by creating technical infrastructure for trustworthy AI-human collaboration while expanding youth engagement through verifiable content creation.

Introduction

The introduction of AI agents has reduced the internet to a dataset with companies battling each other over how to generate real user data¹ as a continuous stream of input to keep training larger foundation models without model collapse². With the rise in agentic activity came the introduction of Anthropic AI's Model Context Protocol ([MCP](#)), which can colloquially be described as a "set of guiding standards to

help agents navigate actions across multiple platforms". Wikipedia is already engaged in operationalizing its knowledge base [for startups](#) who are using it as a provenance tracking service, and a number of so-called AI fact-checkers³ that are also employing it to advance the identification and verification of claims. In this proposal we ask, **can we make Wikipedia the credibility layer of the internet?** Emerging AI agent protocols (MCP, [A2A](#), [NANDA](#)) lack robust mechanisms to combat hallucination and bias. Agent-generated claims in preliminary audits contained factual errors (Wang, Wang, Iqbal, et al., 2024; Wang, Wang, Manzoor, et al., 2024). Wikipedia's structured knowledge base and provenance tracking systems offer unique solutions but remain underutilized in agentic ecosystems. We explore the following questions through this research:

- H1. Can free tools for fact-checking claims in multilingual formats increase public participation in reporting misleading claims?
- H2. Could social claims verification elevate the utility (page views, engagement) of the Wikipedia ecosystem?
- H3. What incentive structures maximize creator participation in claim verification?
- H4. Does decentralized attestation improve trust in multi-agent systems versus centralized alternatives? (could WikiAgents work better than fact-check labels?)

¹ Kylie Robison, Alex Health, [Verge, 2025](#)

² Model collapse has suffered its recent share of controversy from the claim of synthetic data causing it even in nominal volumes. See: [Dohmatob et al., 2025](#)

³ [Facticity](#), [Facterverse](#), [Originality](#), [Sourcebase](#), others.

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Related work

Wikipedia content is shared across the most unexpected pockets of users across social platforms: for example, we find them on Truth Social, the conservative alternative that President Donald Trump created when he was banned from Twitter/X (Shah et al., 2024). There are pockets of rational discourse engaged in the use of Wikipedia articles even on a platform otherwise painted as ideologically congruent, filled with low-credibility information sharing individuals (Zhang et al., 2025). While there are claims that the advent of AI agents will diminish the value of Wikipedia directly (Wagner & Jiang, 2025), we believe it might also contribute to novel revenue streams given the increased usage of the platform by AI agents in seeking to define and refine research concepts using human-verified data sources—the primary source being Wikipedia.

Methods

The proposed systems advance Wikimedia's strategic pillars by operationalizing three decades of community-driven consensus building. We construct an observational study in which we investigate social media influencers viz. the content they produce online; starting from a list of top creators gathered from [SocialBlade](#), we extract claims and process them as they pertain to different categories. Using publicly available data and social media analytics tools, we compile a list of popular influencers who have large followings and whose content frequently includes statements about brands, products, or widely discussed topics. Once we have this list, we collect a sample of posts from these influencers over a set period. We pay special attention to posts that make factual claims—whether in text, video

captions, or images. For example, if an influencer says, “This supplement boosts your immune system,” or shares a meme claiming a certain event happened, we record these statements for further analysis. In particular, results are hashed and stored on-chain, with contextual metadata (timestamp, agent ID, source URLs). The governance of these claims will be important and can draw on crowdsourced models like Reddit’s moderation, Community Notes, or [News Detective](#). We showcase this workflow in the Appendix.

The next step is to verify these claims. We use automated tools that compare the influencer’s statements to information available on Wikipedia and Wikidata. If a claim matches information that is supported by Wikipedia, it is marked as verified. If the claim is not supported or contradicts what is found in Wikipedia, it is flagged for further review. For claims that are disputed or unclear, we also look at how Wikipedia editors and the broader community have discussed these topics on talk pages, which helps us understand if there is consensus or ongoing debate. In addition to automated checking, we monitor how often influencers correct their claims after being presented with verified information. For example, if an influencer is notified that a statement they made is inaccurate, we track whether they update their post or share a correction. We also measure how this process affects engagement with Wikipedia, such as whether there are increases in page views, social media sharing, or more people editing Wikipedia articles on related topics.

Our goal is to demonstrate this use-case for social media influencers as a flagship example of how our agentic protocol can be applied, and allow online AI agents to access an endpoint and use our system for in-conversation claims verification as our study concludes.

What we have already done/have ongoing:

Our team and collaborators have already worked in this area and built the following:

1. [Factiverse's](#) claim detection models (89% F1-score in multilingual tests)
2. [PublicEditor's](#) browser extension architecture with 320ms median latency
3. Our platform⁴, [Arbiter's](#) cross-platform data lake containing 250M+ social media interactions.

Our ongoing work and collaborations position us well to demonstrate not only existing impact, but also technical capacity, product vision, and team alignment towards a single goal.

Expected output

We target an audience of AI developers, students, and researchers in the credibility community. For developers, our key deliverable is an SDK (Python, JS) for them to program low-latency (<30 secs) **claims verification agents** as well as **results hashing protocols** when it gets too challenging to maintain locally. For students, we provide a means to fact-check their favorite (top 500 in different categories) influencers and clear their feeds of misleading information up engagement for Wikipedia as a reliable and community-governed source of truth. And for researchers, our combination of social media data, engagement, Wikipedia data, would be an invaluable source of research data across social platforms in tough times for researcher data access from platforms. We aim to publish our work in Management Science, AAAI, ICWSM, or equivalent venues.

⁴ Formally, SimPPL is the recipient applying for this grant. But we aim to work with the other teams mentioned on the products they have asked us to take over e.g. PublicEditor (no longer actively maintained, but perfectly functional).

Risks

First, the mechanistic issues: token based control of the system including usage-based pricing will be necessary to build an economically sustainable solution and track any abuse of the system by bad actors trying to game it. We will also face the social and reputational challenges. There is also the risk of legal or reputational issues arising from the involvement of influencers. If an influencer shares unverified or controversial claims, it could expose Wikimedia to criticism or regulatory scrutiny. To mitigate this, we will develop clear guidelines for influencer participation, provide training on responsible information sharing, and establish rapid response protocols for addressing disputes or misinformation. This has been done before in terms of the policies that social media platforms define to moderate hateful speech on the platforms⁵ and utilised by others to craft civic integrity policies including hate speech.

Community impact plan

We have already established conversations with Wikimedia Brasil and work with WikiCred members in the U.S. who are highly active developers. For Wikimedia developers, we will provide open-source software development kits (SDKs) and detailed documentation, encouraging them to integrate our verification tools into existing bots, gadgets, and workflows. We will host hackathons and developer sprints to support this integration, and offer recognition and support for innovative community-led adaptations. Beyond the Wikimedia movement, we will engage with social media influencers and content creators, providing them with easy-to-use toolkits for claim verification. By partnering with popular creators, especially those with large youth followings, we can promote the adoption of

⁵ [Meta's Hateful Conduct Policy](#), accessed 2025

reliable information practices and drive new audiences to Wikipedia, expecting effects that are similar to prior work in the context of islamophobia (Alrababa'h et al., 2021).

Evaluation

Adoption by both users and influencers will be a topline metric to evaluate our system.

Considering our study design, other outcome variables include the system performance metrics, qualitative research studies, and user interviews to gather community feedback directly. Through the engagement and pageview data, our approach allows us to measure not only the accuracy of information shared by influencers but also the effectiveness of Wikipedia as a tool for improving the quality of online discourse.

Throughout the process, we take care to respect privacy and ethical guidelines. We do not collect personal information about influencers or their followers, and we ensure that our analysis is balanced across different viewpoints and communities. By making the verification process transparent and accessible, we hope to encourage more influencers to participate in fact-checking and to help their audiences find trustworthy information online.

Budget

The [budget](#) narrative allocates expenses between the enlisted personnel: research staff, postdoctoral (project lead) researcher, project lead, coordinator, and 2 software engineers. Rates are at market price in India, where the team will be based. The software costs are based on bi-annualized actual costs accrued by our current Google Cloud Platform hosted servers and API endpoints including LLM API calls.

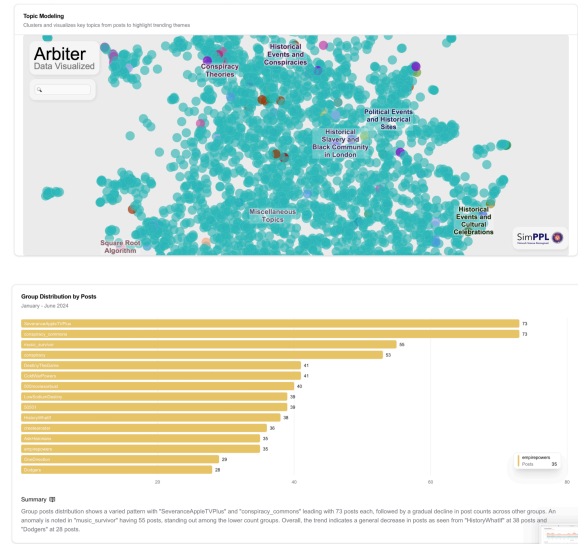
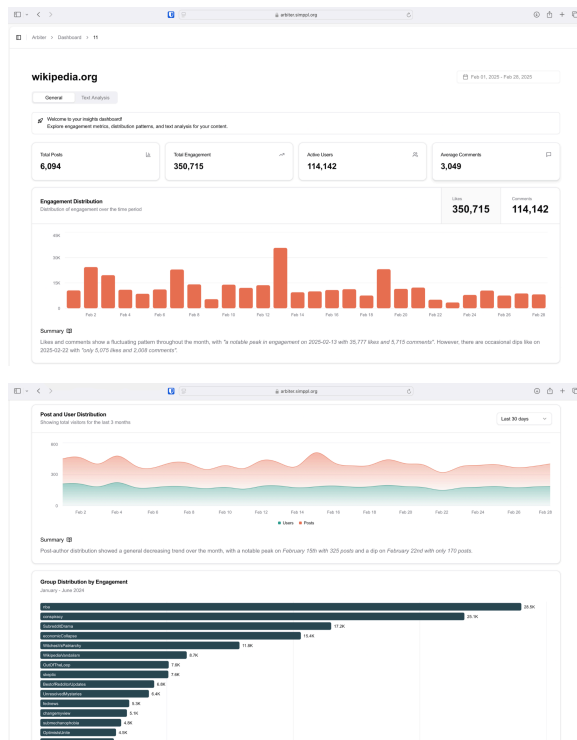
References

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- Zhang, Y., Lukito, Josephine, Suk, Jiyoun, & McGrady, R. (2025). Trump, Twitter, and Truth Social: How Trump used both mainstream and alt-tech social media to drive news media attention. *Journal of Information Technology & Politics*, 22(2), 229–242.
<https://doi.org/10.1080/19331681.2024.2328156>

Appendix

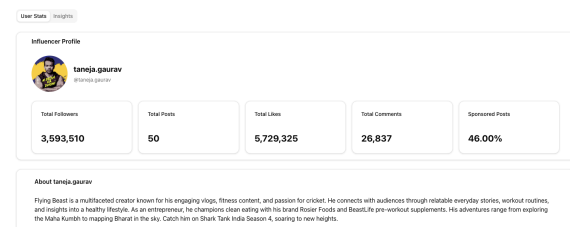
A. [Arbiter](#)

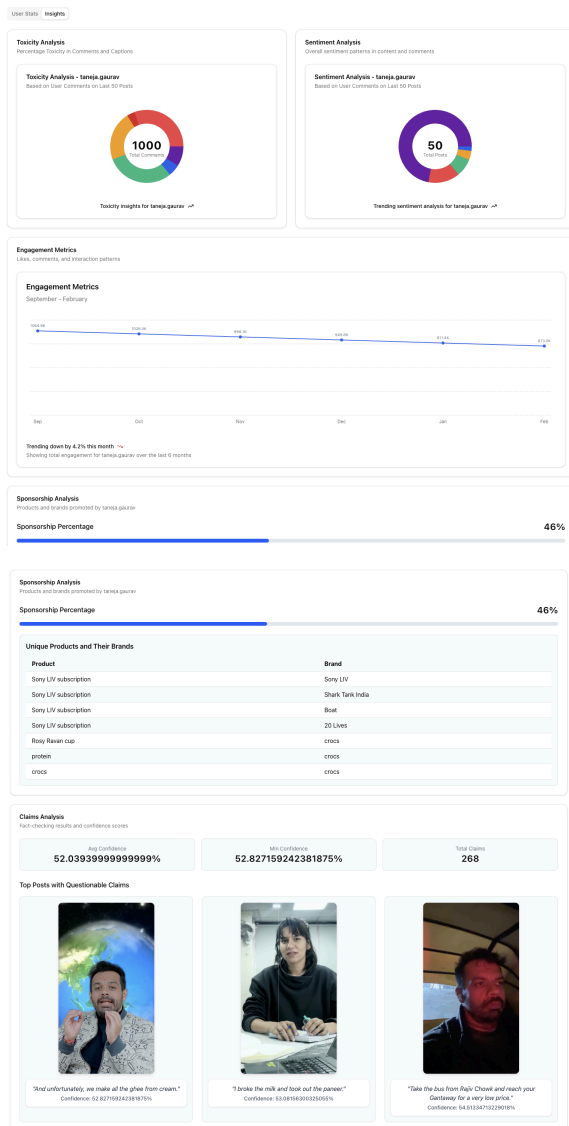
We have designed social media data collection systems to collect hundreds of thousands of posts across Telegram, YouTube, Truth Social, Instagram, and others. Below, we provide screenshots to highlight this system. Click on the header for a demo (needs signup).



B. [InfluenceCheck](#)

Influencers post multimodal content to a variety of different mainstream and alternative social platforms. Here, we demonstrate that we have already built significantly complex technical architecture for studying Indian influencers and their online claims, such that we will be able to deliver successfully on the proposed work. Click on the header for a demo (no signup needed).





Figures showcasing how we check for influencers' claims. Work is in small part supported by WikiCred 2021 grant of \$10,000.

Folder with full-size photos:

https://drive.google.com/drive/folders/1PNvnZfriCl9UOWW40dYP_IOnfoCEwVZn?usp=sharing