SAI UPDATE

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DE TOEKOMST VAN IT

6 TRENDS EN 12 BIJDRAGEN VAN JONG IT-TALENT

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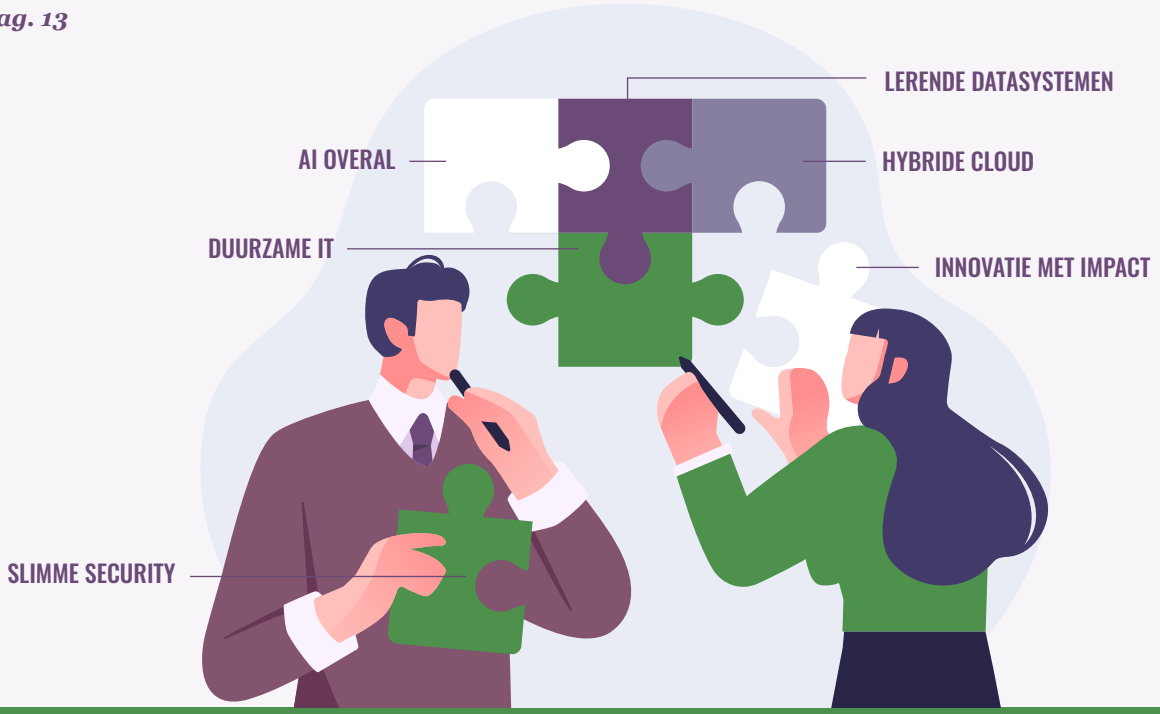

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WHEN AIS CHECK EACH OTHER

A MULTI-AGENT APPROACH TO FACT-CHECKING

In an era where misinformation spreads faster than facts, the demand for reliable fact-checking tools has never been greater. As a part of his master's studies at UHasselt, Xander Vervaecke developed LieSpy.ai, a fact-checking system powered by a multi-agent AI architecture. His tool demonstrates how multiple large language models (LLMs) can collaborate, challenge one another, and ultimately converge on the truth.

The process begins when a user enters a claim – for instance, "Obama's birth certificate is fake." The system first analyzes whether the claim can be fact-checked and breaks down compound statements into individual components. Then, it gathers information from multiple online sources, each assigned a trustworthiness score based on their reputation. A site like FactCheck.org might score 9/10, while a conspiracy blog could receive only 2/10.

MULTI-MODEL

At this stage, several AI models – such as GPT, Gemini and Mistral – are deployed. Each independently evaluates the claim using the gathered evidence and produces its own verdict on a true-to-false scale. The outcomes are then aggregated into a single verdict that reflects both consensus and confidence levels.

The approach is: don't rely on a single AI model, but on collaboration and comparison between multiple agents.

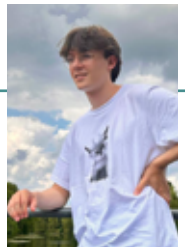
What sets LieSpy.ai apart is that it doesn't rely on a single AI model but on collaboration and comparison between multiple agents. "The fact-checker externalizes the confidence of each model and combines their findings into one coherent verdict," explains Vervaecke. This layered approach ensures that biases or inaccuracies from one model can be balanced out by others, making the system more robust and transparent.

TRANSPARENCY

LieSpy.ai's interface not only provides a final answer but also reveals how that answer was reached. Users can inspect each model's reasoning, see the evidence it relied upon, and view the relevance of each source. This level of transparency transforms the tool from a black box into a learning instrument for journalists, researchers, and policymakers seeking to understand AI reasoning.

Currently, LieSpy.ai supports three large language models, but expansion is on the horizon. Future versions will feature cross-validation, allowing AIs to evaluate one another's reasoning. The system will also handle time-sensitive queries more effectively, which struggle with questions like "Who is the current pope?" as world events change.

Looking ahead, Vervaecke plans to integrate image and video analysis into the system to verify visual content such as deepfakes. This would transform LieSpy.ai from a text-only fact-checker into a multimodal verification platform capable of evaluating text, images, and video in unison. "The approach works just as well for more complex or challenging questions,", notes Vervaecke, underscoring the system's potential beyond simple factual checks.



Thesis title: Fact Checker with Multi-Agent Approach

Author: Xander Vervaecke

Institution: Hasselt University (UHasselt)

Why this thesis stands out

LieSpy.ai redefines fact-checking by introducing a self-reflective AI ecosystem where multiple models cooperate to establish truth.

Key takeaways

- Multi-agent collaboration: multiple AI models verify claims independently and compare their findings.
- Transparent reasoning: users can see how reliable sources are and how each model formed its verdict.
- Cross-validation and multimodality: future iterations will allow AIs to evaluate each other and analyze images or videos.
- Educational and ethical impact: LieSpy.ai bridges the gap between AI performance and human understanding.

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