

Haltia.AI Makes History in AI Knowledge Engineering with KNOW Ontology and Developer-Friendly Tools

Haltia.AI unveils world-first KNOW ontology, empowering AI with real-world knowledge, along with interoperable developer tools in 12 languages, at ESWC 2024.

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/EINPresswire.com/ -- Haltia.AI, a rising star in neuro-symbolic AI innovation, today announced a groundbreaking suite of advancements that propel them to the forefront of AI knowledge engineering. This announcement, unveiled during the 2024 Extended Semantic Web Conference (ESWC) in Crete, Greece – a land with a rich history in philosophical inquiry that laid the groundwork for modern ontology – showcases three key elements:



Arto Bendiken, CTO and co-founder, Haltia.AI

1. **KNOW: The Knowledge Navigator Ontology for the World:** This first-of-its-kind ontology (a restricted vocabulary with well-defined semantics) is designed to capture the essence of everyday human experience. Focusing on both daily routines and life milestones, KNOW provides a practical foundation for imbuing large language models (LLMs) with real-world knowledge in a form that can be introspected, explained, and verified for accuracy.
2. **Unlocking Everyday Knowledge for AI with Universal Interoperability in Mind:** KNOW is designed with universal interoperability in mind, aiming to ensure seamless knowledge syncing, sharing, and integration across connected AI systems, vendors, apps, and use cases. This ambitious design goal has the potential to revolutionize how AI systems connect, communicate, and collaborate.
3. **Democratizing Access: Unprecedented Breadth of Developer Tools:** Underlining their commitment to open research and industry collaboration, Haltia.AI is taking an unprecedented step by providing software development kits compatible with 12 of the most widely used



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programming languages today, with more to follow soon. This never-before-seen breadth of accessibility ensures developers of all backgrounds can effortlessly integrate the power of KNOW into their AI creations.

“This represents a significant leap forward in AI personalization,” said Arto Bendiken, CTO and co-founder of Haltia.AI and lead author of the accompanying research paper. “By marrying ontology-driven knowledge capture with large language models, we are paving the way for AI that is not only intelligent but also has a long-term memory and understands the nuances of human experience.”

Haltia.AI’s research demonstrates that as LLM fine-tuning methods evolve the KNOW ontology can deliver increased context and applied knowledge personalization yet to be seen, achieving impressive results with minimal training data. This scalable and efficient approach offers a glimpse into the future of AI, where personal assistants and other intelligent systems can leverage everyday knowledge to provide a truly personalized and helpful experience. Haltia.AI’s dedication to open research is a hallmark of this project. By making the KNOW ontology and its accompanying software development kits freely available without restrictions, they are promoting collaboration within the AI community and empowering developers to build the next generation of intelligent applications.

This groundbreaking suite of advancements positions Haltia.AI at the forefront of engineering trustworthy and interoperable AI systems. Their commitment to open research and industry collaboration ensures that the benefits of KNOW will be widely accessible, accelerating progress towards a future powered by intelligent and human-centric AI.

To learn more about KNOW and access the accompanying resources, please visit the initiative’s GitHub repository.

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About Haltia.AI:

Haltia.AI is a leading innovator in trustworthy business-to-business (B2B) and business-to-government (B2G) AI solutions. Led by a visionary team with deep expertise in technology, entrepreneurship, and digital transformation, we empower organizations to leverage the power of AI ethically and responsibly, with a core commitment to user privacy.

Transforming AI Interaction and Integration

Our CTO, Arto Bendiken, pioneered knowledge graph technology 15 years ago, which now underpins our AI systems. This technology turns information overload into actionable insights by delivering precise, timely information for informed decision-making. Our advanced conversational interfaces go beyond simple chatbots, offering richer, more meaningful experiences managed through voice chat. Additionally, our composable AI architecture provides modular AI components for seamless integration into existing systems, enabling custom AI solutions tailored to specific organizational needs.

Global Reach and Expertise

Headquartered in Delaware, USA, with an operating subsidiary in the UAE, Haltia.AI boasts a global presence. Our team includes highly regarded experts and advisors, merging top talent in AI engineering and ethical coding practices.

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