

Using AI for Knowledge Mining and Scientific Discovery



Project Idea

Using AI for Knowledge Mining and Scientific Discovery



**Organization name,
town and country**

KAN Adam Księżyk, Kraków, Poland



Addressed topic(s)

HORIZON-CL4-INDUSTRY-2025-01-HUMAN-62:
Artificial Intelligence for knowledge valorisation (CSA)
HORIZON-CL4-INDUSTRY-2025-01-DIGITAL-61:
AI Foundation models in science (GenAI4EU) (RIA)
HORIZON-CL4-INDUSTRY-2025-01-DIGITAL-62:
Facilitated cooperation for AI in Science (CSA)



EU INDTECH 2025 Brokerage Event



KAN Adam Księżyk

Just getting started!

Gained experience in AI Research Teams, successfully solving business problems.



**AGH UNIVERSITY
OF KRAKOW**

We focus on:

- **Creating value by implementing AI**
- **Data-driven decision making**
- **Knowledge Mining**



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1. The proposed platform **revolutionizes materials discovery**.

1. This approach **dramatically reduces the time and resources** required for materials development by providing data-driven guidance.

1. Sustainable materials development by enabling **rapid identification of materials** compositions and processing conditions that meet desired performance requirements.

1. The methodology has **demonstrated success** in ferroelectric materials research and can be extended to diverse materials classes including advanced ceramics, sustainable composites, and next-generation energy storage materials.

1. Leverage **GenAI** for knowledge discovery to extract actionable insights from scientific literature and experimental data, and ground the responses (control hallucinations) by applying data-driven **Causal Discovery** techniques.



Competences

Who are we looking for?

We seek strategic partnerships with manufacturing companies and materials producers.

What do we offer?


We provide expertise in Artificial Intelligence, Machine Learning infrastructure, and high-performance computing capabilities to support the scalable deployment of AI-based discovery platforms.

Funding and Commercialisation Support

We seek partners with expertise in technology transfer, intellectual property management, and commercialisation of AI-driven scientific discoveries, including venture capital firms, technology transfer offices, and innovation accelerators focused on deep-tech materials applications.

Contact details

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