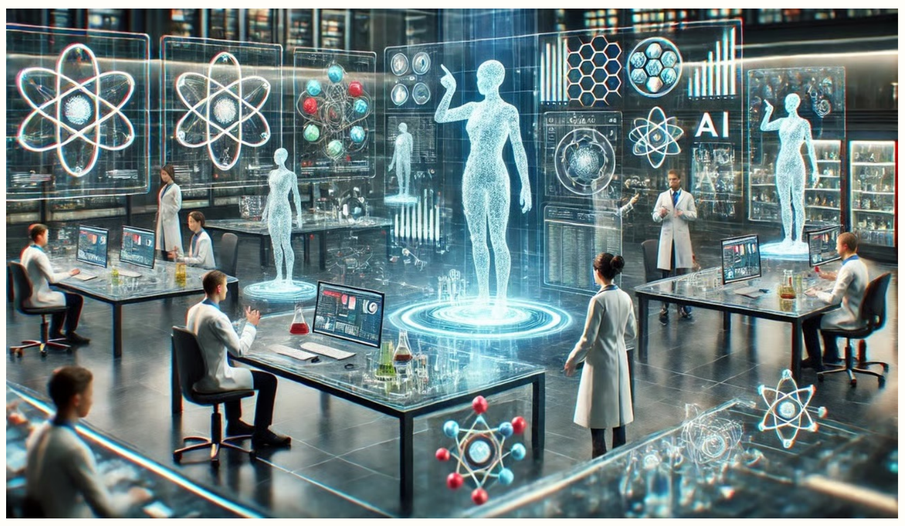
USE CASE

HI FOR SCIENCE

AUGMENTING HUMAN INTELLECT WITH AI ASSISTANTS



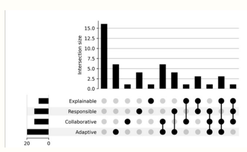
MISSION

AI-driven scientific assistants have the potential to revolutionize scientific research. However, as the name suggests, these tools are scientific “assistants” – they are meant to augment, not replace, humans in “doing science”.

Our mission is **to facilitate human-AI synergy** in all aspects of scientific research, including idea generation, literature review, data curation, experimentation and analyses, scientific review as well as the teamwork.

COMPLETED PROJECTS

LANDSCAPE & CHALLENGES



Analytical framework for assistants based on CARE capabilities.

Key Finding: Current SAs lack **interactivity** and high **initiative**

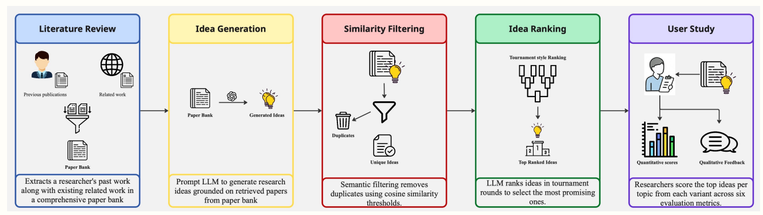
EVALUATION METRICS

OpenReview.net

- OpenReview papers parsed to unified format
- Automated prediction: citation count and review score

Key Finding: Simple score classifiers > LLMs

PERSONALIZATON



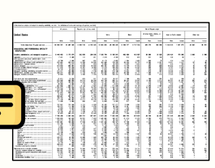
Key Finding: Personalization enhances to **feasibility** of ideas.

ONGOING AND UPCOMING PROJECTS

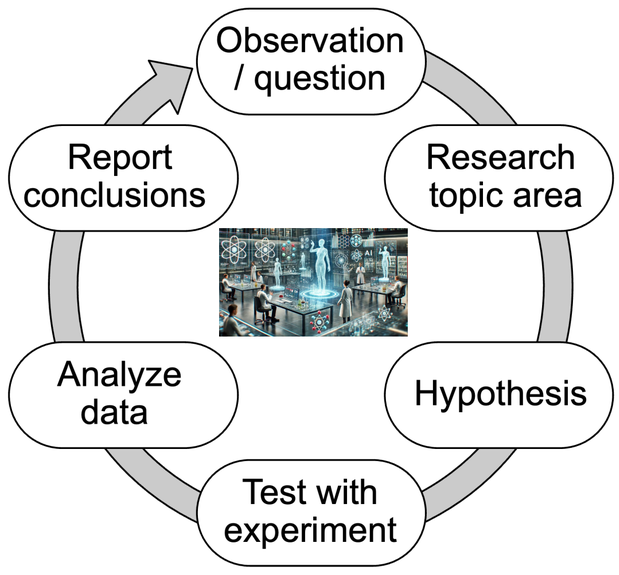
INTERPRETABLE & CHECKABLE COMMUNICATION

Example use case: Reviewer assignment

SENSEMAKING IN HETEROGENOUS TEAMS



Conversational AI to improve hybrid data sensemaking.

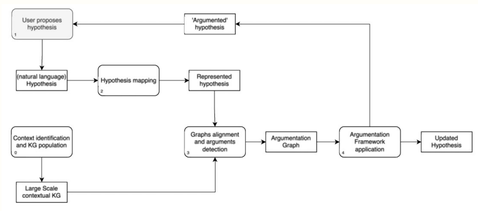


COOPERATION DATABANK

coda

Living meta-analytical reviews of human cooperation

HYPOTHESES UPDATING



How can you contribute to the HI for Science use case?

CONTRIBUTORS

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