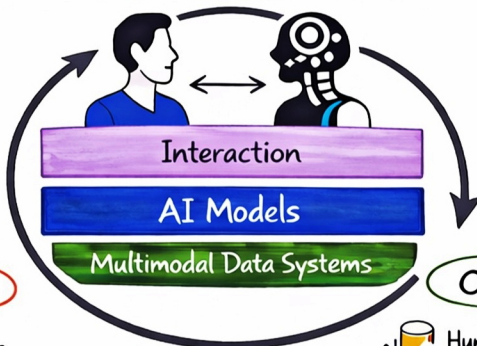


# Human-AI Collaboration & Analytics

[arxiv: 2603.05542]

## Challenges & Opportunities



### Challenges

- ⚡ **Latency Issues**  
Real-time response
- 📊 **Scalability**  
Large datasets
- ⚠️ **AI Uncertainty**  
Errors & bias
- 🧩 **Multimodal Complexity**  
Text, images, audio

### Opportunities

- 🍹 **Human-Centered Data Management**  
Query processing, indexing and storage for interactive analytics
- 🔍 **Guided Exploration**  
AI insights
- 🧑‍🎓 **AR/VR Interfaces**  
Virtual & augmented
- 📖 **Narrative Visualization**  
Data storytelling

📖 more info: Human-Data Interaction, Exploration, and Visualization in the AI Era: Challenges and Opportunities, J-D. Fekete, J. Freire, Y. Hu, D. Moritz, A. Nandi, S.B. Roy, E.Wu, N. Bikakis, G. Papastefanatos, P.K. Chrysanthis, G. Li, L. Yu, 2026  
[\[https://arxiv.org/abs/2603.05542\]](https://arxiv.org/abs/2603.05542)