THE LINUX FOUNDATION

OPEN SOURCE SUMMIT INDIA

Open By Design - Open Ecosystem, Governed AI, Trusted Outcomes

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#OSSUMMMIT

THE LINUX FOUNDATION

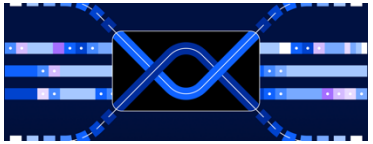
Thank you for what you do to advance Tech

IBM and Open Source Communities

- Scaling Linux kernel for the enterprise
  - Very large cpu and memory configs, MM, FS,…
  - Observability: Tracing, profiling, Failure Logs,…
- Enterprise Hardening and security leadership
  - Common Criteria, OpenSSF, Open source supply chain

OpenSSF
OPEN SOURCE SECURITY FOUNDATION

Project Lightwell



IBM open source story:
Before open source was cool

IBM and Open Source Communities

The Modern Era: AI, PyTorch, Data Preparation and Hardware Acceleration

LF AI & DATA

docling

Docling

The mission of the project is to simplify document processing, to parse diverse formats — including advanced PDF understanding — and to provide seamless integrations with the gen AI ecosystem

BeeAI

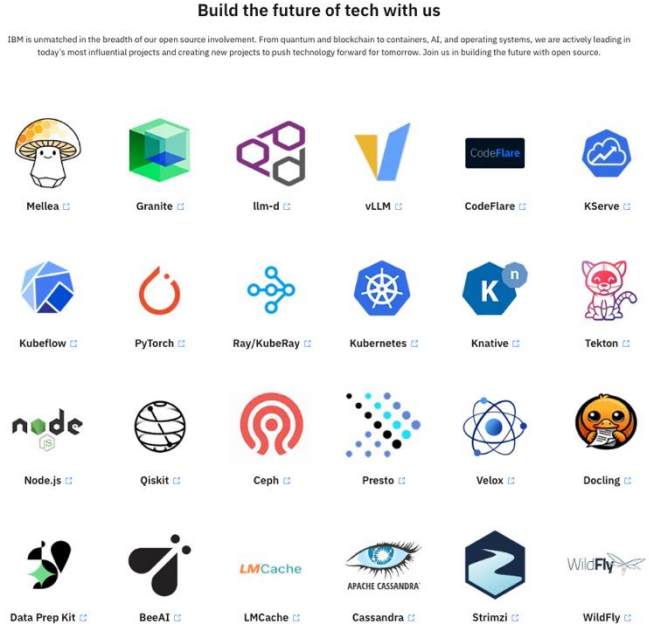
BeeAI

The mission of the BeeAI project is to develop an open-source framework for building production-ready agents.

Data Prep Kit

Data Prep Kit

The mission of the Data Prep Kit project is to simplify unstructured data preparation for LLM application development.



Open Source @ IBM

The AI moment

AI is writing code

AI is making decisions

AI is shaping business outcomes

The Tension

Open Source is powering AI acceleration

But

Trust Gap is widening

The Trust Gap

Lack of explainability

Security vulnerabilities

Bias in decision-making

Hallucinations in generative models

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Trusted AI = Responsible + Reliable + Transparent

Transparency

Fairness

Robustness

Accountability

Security & Privacy

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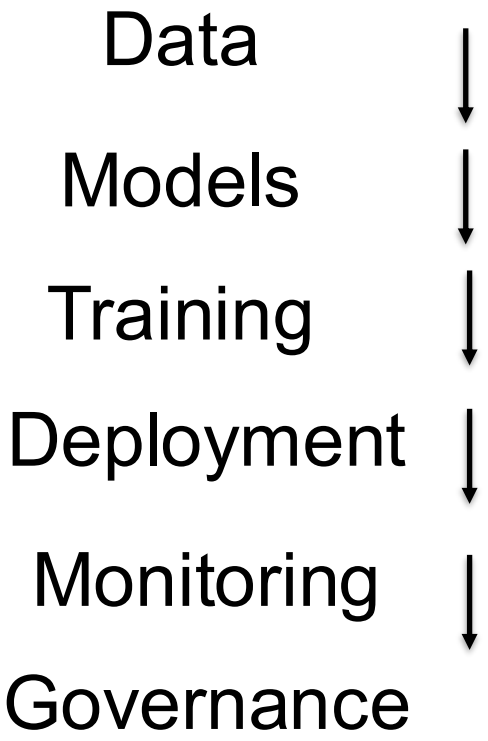
Embedded throughout the AI lifecycle



AI risk atlas

Traditional risk of AI — Established risks of AI that apply to both traditional and generative models.

Specific to generative AI — Risks that are specifically associated with generative AI models.

Amplified by generative AI — Risks that are more severe or likely due to generative AI. These risks are also applicable to traditional AI models.

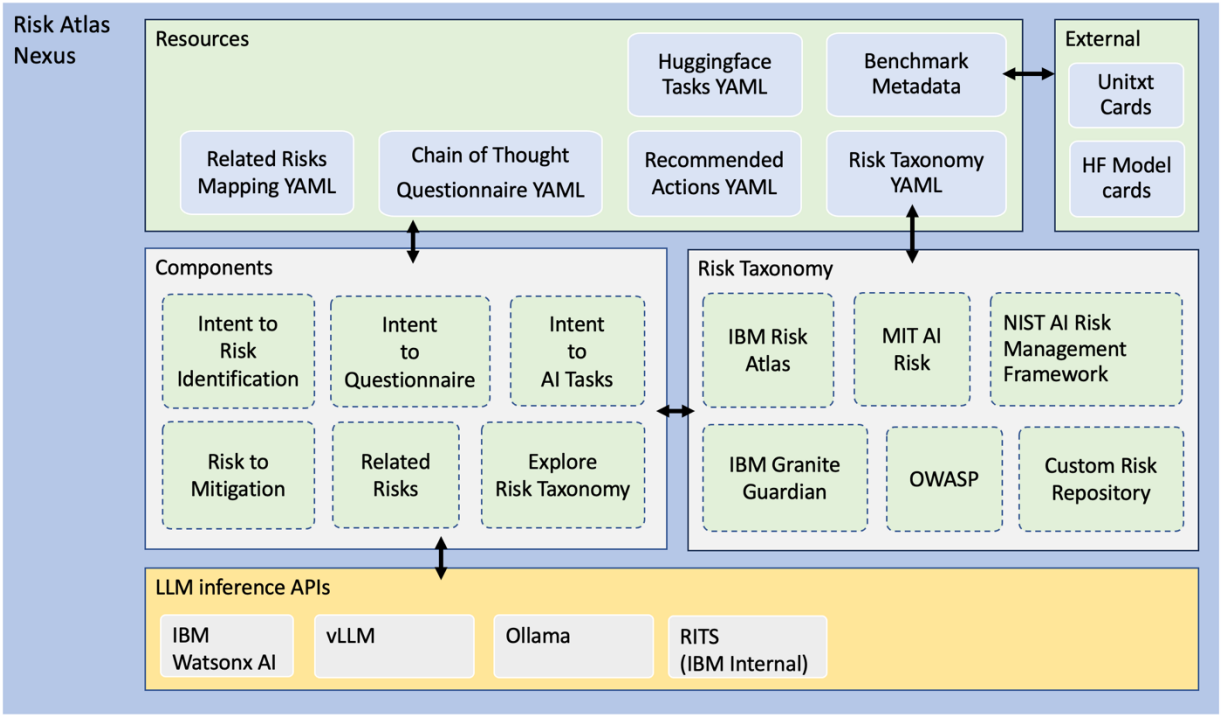
Specific to synthetic data — Risks that are specifically associated with the use of synthetic data.

Amplified by synthetic data — Risks that are increased or more likely to occur due to the use of synthetic data.

Navigate through the space of intrinsics based on your purpose

"Usage Governance Advisor: from Intent to AI Governance." E. M. Daly, S. Rooney, S. Tirupathi, L. Garces-Erice, I. Vejsbjerg, F. Bagehorn, D. Salwala, C. Giblin, M. L. Wolf-Bauwens, I. Giurgiu, M. Hind, P. Urbanetz. arXiv:2412.09157.

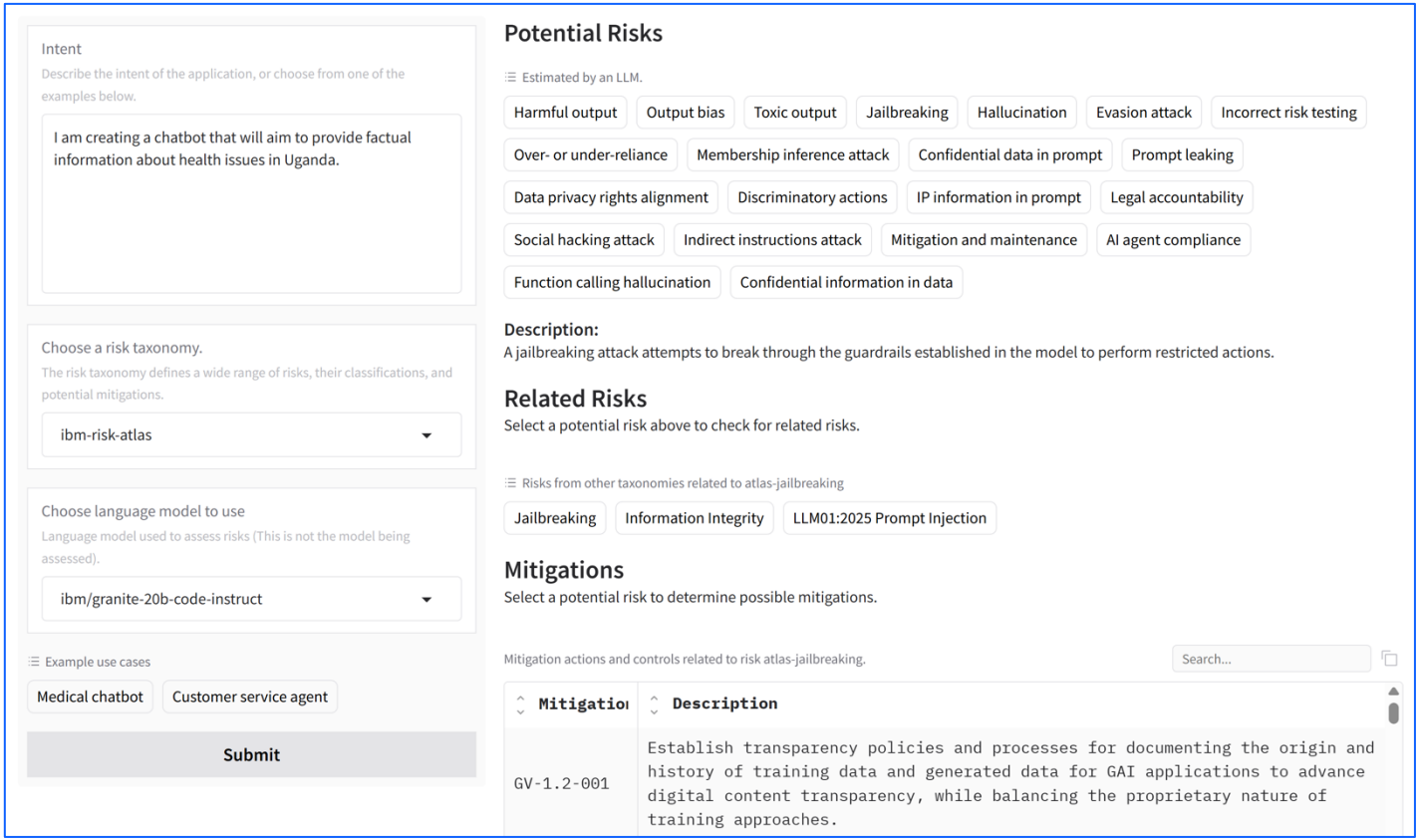
https://github.com/IBM/risk-atlas-nexus



Try it

"AI Risk Atlas: Taxonomy and Tooling for Navigating AI Risks and Resources." F. Bagehorn, K. Brimijoin, E. M. Daly, J. He, M. Hind, L. Garces-Erice, C. Giblin, I. Giurgiu, J. Martino, R. Nair, D. Piorkowski, A. Rawat, J. Richards, S. Rooney, D. Salwala, S. Tirupathi, P. Urbanetz, K. R. Varshney, I. Vejsbjerg, M. L. Wolf-Bauwens. arXiv:2503.05780.

https://huggingface.co/spaces/ibm/risk-atlas-nexus



Towards a Purposeful AI

Open Source Community:

- Contribute to standards
- Build transparent AI systems
- Collaborate on (India) governance frameworks

M. Moral and Ethical Systems
A. Accountable Governance
N. National Sovereignty
A. Accessible and Inclusive
V. Valid and Legitimate Systems

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“Goldilocks” AI oversight

Towers
Different scopes of alignment

Competence

Knowledge
Skills
Behaviors / Norms

(KSBs in military parlance)

Transience

Semantic
(merged)

Episodic
(runtime)

Audience

Mass
Public
Small-group
Dyadic

“Scopes of Alignment.” K. R. Varshney, Z. Ashktorab, D. Bouneffouf, M. Riemer, J. D. Weisz. Proceedings of the International Workshop on AI Governance, Mar. 2025.

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