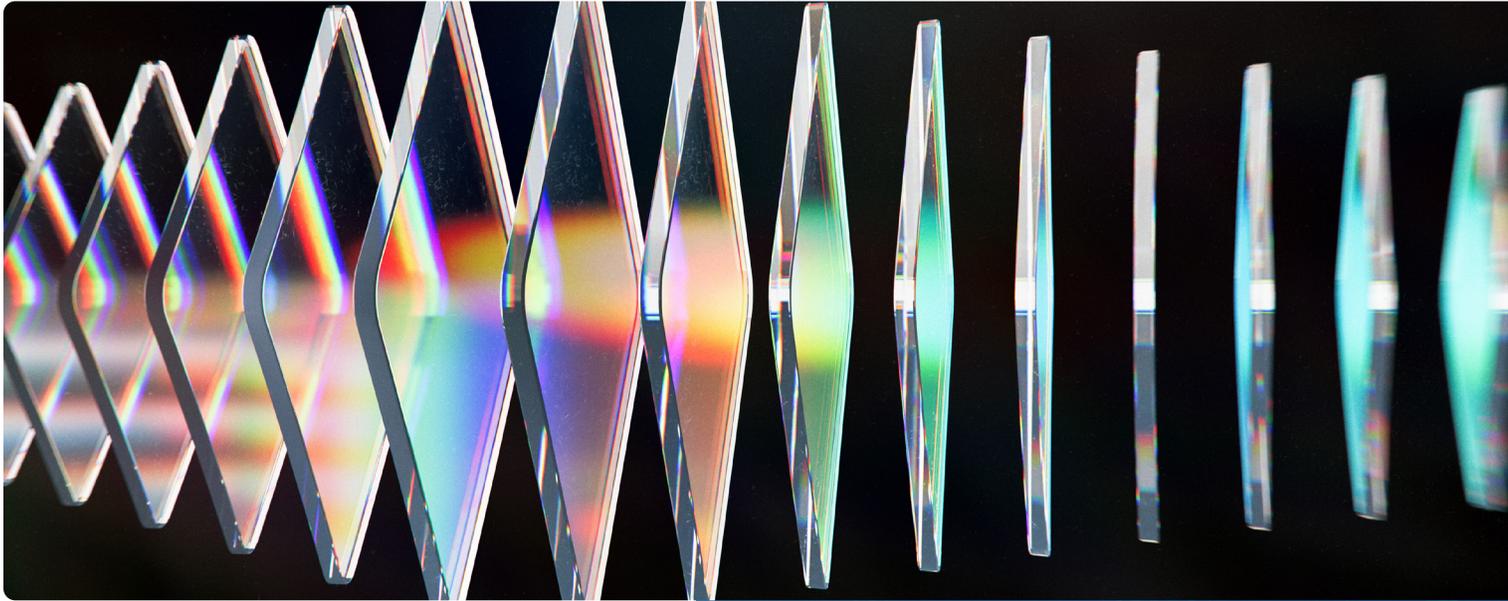


# Artificial Intelligence Assurance Implementation (AI2)

Confidence in AI through Assurance



Artificial intelligence (AI) and machine learning (ML) practitioners regularly transition models to production environments as part of their applications. These models are trained on “well-behaved” data and validated in controlled environments. However, many times, there is limited foresight as to how these models will perform against novel, proprietary data when put into a live situation. For example, what if:

- live data presented to an AI model in a live environment is altered intentionally, or simply differs from what the model is trained on?
- an AI model is exploited by attackers looking for ways to make it fail in production or be evaded?
- it's difficult to compare the performance of different versions of the same model or catalog results of an earlier model assessment?

By applying our AI2 solution, agencies seeking to integrate AI can reduce risks and create more reliable and responsible systems.





## Model Evaluation

AI2 uses several tests and guidelines to evaluate AI models in three key areas:

1. **Technical performance tests** measure how well the model works, including its accuracy, reliability and ability to handle unexpected situations.
2. **Societal impact tests** look at how the model might affect people, through its potential for bias or any privacy issues.
3. **Ethical guidelines** ensure that models align with values like fairness, accountability and transparency.

## Assessment Score Card

An “Assessment Score Card” enables users to evaluate the model’s performance across various categories, such as:

- Robustness
- Decision Bias
- Accuracy

AI2 offers users recommendations and practical insights to enhance model performance based on the completed assessments.



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## ABOUT NOBLIS

Noblis is a nonprofit science and technology organization delivering innovative solutions to the federal government that enrich lives and make our nation safer. As a nonprofit organization, we work objectively for the public good and invest in breakthrough solutions to deliver lasting impact on our customers’ missions with a strategic focus in the areas of health, space, national security and critical infrastructure. Our domain experts advance technologies such as artificial intelligence and advanced analytics, applied and environmental sciences, modeling and simulation, cybersecurity, autonomous systems and systems engineering.

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