

Model Card++

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Agenda

Goal: Discuss how parts of NVIDIA's Model Card++ could feed Voluntary Reporting Template

- What is a model card?
- Why do we need it?
- What is Model Card++?
- How is it different from Model Card?
- How does it help us?
- Demo
- Where is it?
- Questions to prod next steps



What are model cards?

Short documents to describe models



Model Cards on NVIDIA NGC™

Ethics Researchers created the original Model Card as a document to detail how machine learning models work.

Model cards provide information on:

- Performance
- Expected outputs
- License(s)

Model cards can help:

- Inform AI decision-makers and beneficiaries
- Educate customers
- Enable the AI community

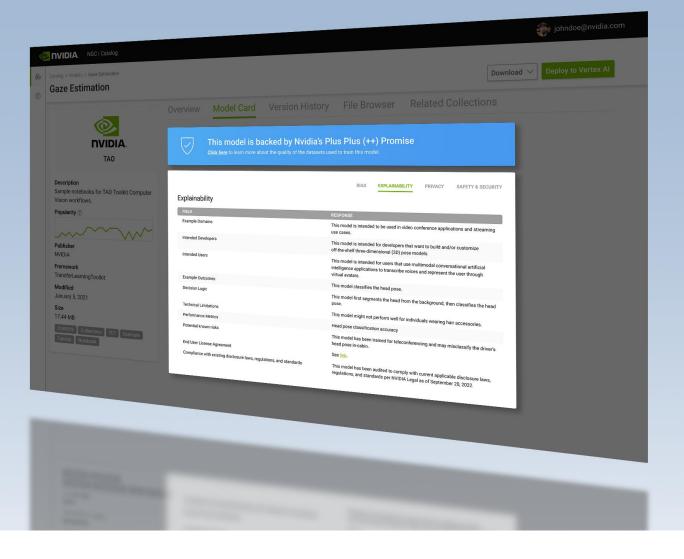


Why do we need Model Card++?

Communicate AI transparently

- ✓ Tie model info directly to model access
- ✓ Provide clear and concise content
- ✓ Structure sections and format responses consistently
- ✓ Detail specific ethical considerations





Includes:

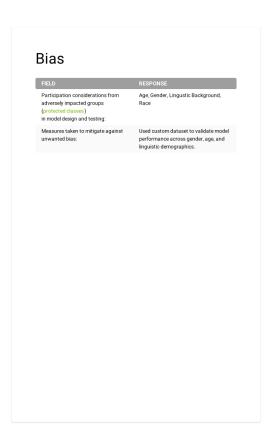
- NGC Model Card Characterizations
- ++ Promise (Triple "P")
- Four (4) Subcards

Introducing Model Card++

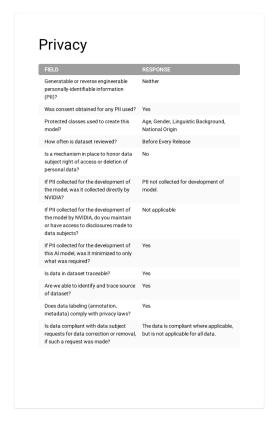
The Next Generation Model Card. Introduced 2023.

Model Card++

How NVIDIA improved the model card









Bias Subcard

Explainability Subcard

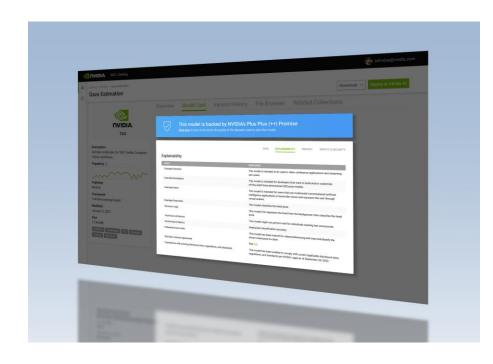
Privacy Subcard

Safety & Security Subcard



Does Model Card++ help?

Inform and drive usage across domain and platform



Describe and clarify "hard-to-find" "Top5":

- performance
- datasets
- terms of use/license
- intended applications and use cases
- known limitations and risks

Accelerates assessment & deployment, particularly for data scientists and management; no need to read paper

More descriptive model cards tend to have <u>higher usage</u> (Liang et al. 2024, 18) and are thereby <u>more discoverable</u>



Model Card++ Demo

Mistral-NeMo Minitron 8B-8K Instruct

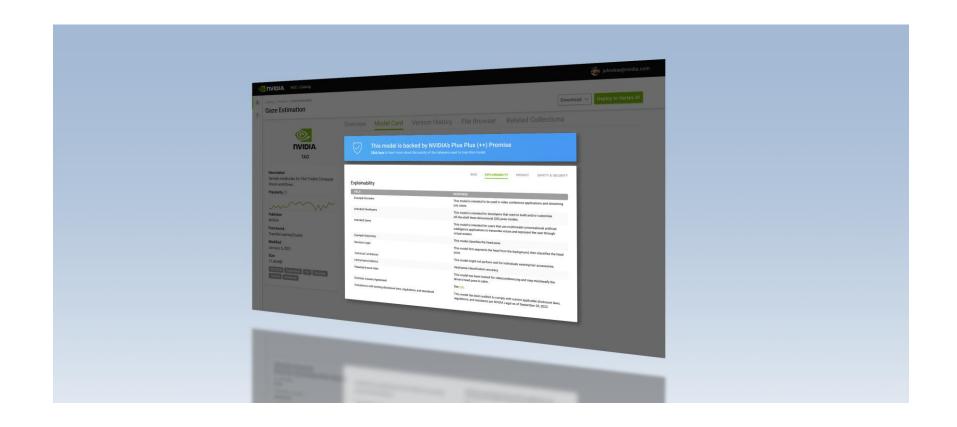


Small Language Model for Chatbot, Virtual Assistants, and Content Generation

Model Card Link



400+ Model Card++s Available Now



Automotive | Cybersecurity | Healthcare Manufacturing | Media & Entertainment | Retail Smart Cities | Telecommunications



Feedback

What could we do next?

- What resonates?
- Could a longer-term tiered or phased approach work?
- Could we prioritize fields of interest and get to a core set?



