Model Cards

Model Cards for **Model Reporting**

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Margaret Mitchell, Simone Wu, Andrew Zaldivar, Parker Barnes, Lucy Vasserman, Ben Hutchinson, Elena Spitzer, Inioluwa Deborah Raji, Timnit Gebru
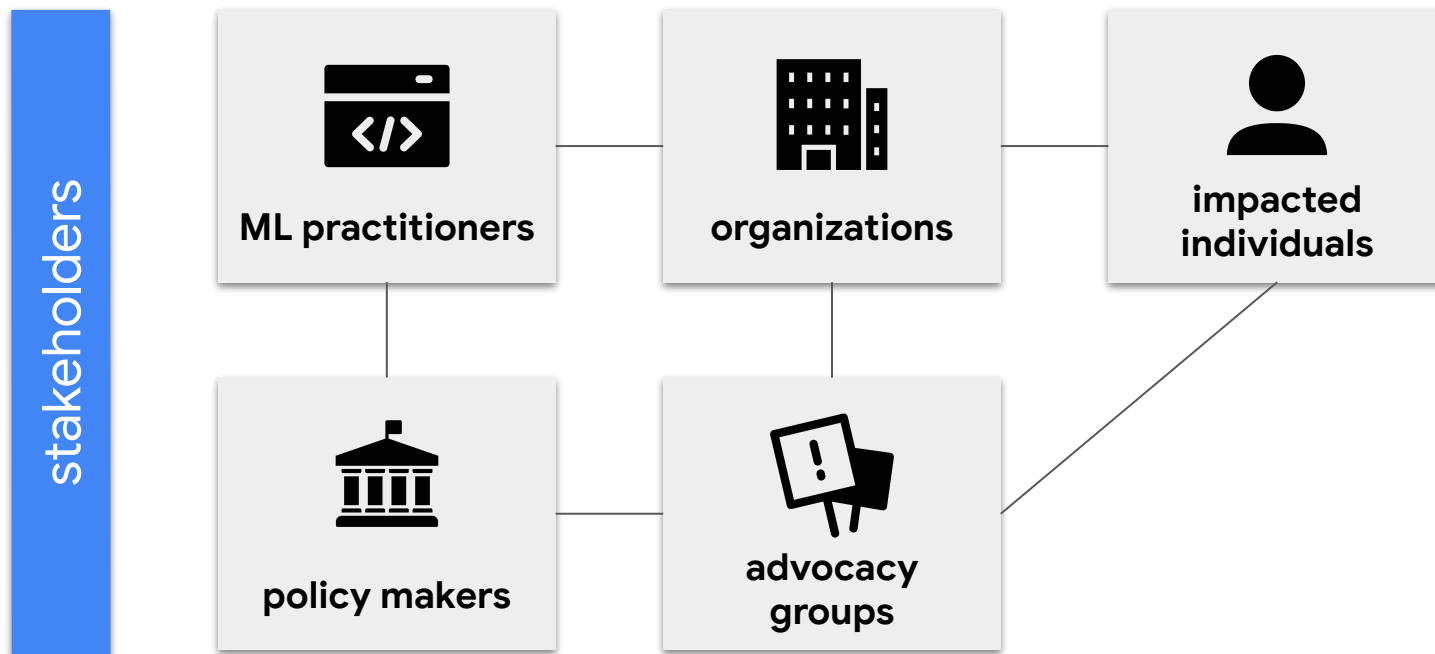
Model Cards for **Model Reporting**

- Increase **transparency** of a model's capabilities and limitations
- Facilitate **communication**
- Foster **accountable** ML practices
- **Democratize** ML technology

Transparency

- Model Details
- Intended Use
- Factors
- Metrics
- Evaluation Data
- Training Data
- Quantitative Analyses
- Ethical Considerations
- Caveats & Recommendations

What's inside?

Communication

stakeholders

- ML practitioners
- organizations
- impacted individuals
- policy makers
- advocacy groups

Google's **Model Card Toolkit** (MCT)

Object Detection
Model Card v0   Cloud Vision API

Overview
Limitations
Performance
Test your own images
Provide feedback

Explore

↗ Face Detection

🏠 About Model Cards

MODEL DESCRIPTION

Input: Photo(s) or video(s)

Output: The model can detect 550+ different object classes. For each object detected in a photo or video, the model outputs:

- Object bounding box coordinates
- Knowledge graph ID ("MID")
- Label description
- Confidence score

Model architecture: Single shot detector model with a Resnet 101 backbone and a feature pyramid network feature map.

PERFORMANCE

PRECISION 100%

0   RECALL 100%

● Open Images   ● Google Internal

Performance evaluated for specific object classes recognized by the model (e.g. shirt, muffin), and for categories of objects (e.g. apparel, food).

Two performance metrics are reported:

- Average Precision (AP)
- Recall at 60% Precision

Performance evaluated on two datasets distinct from the training