

Model Card Template

Standardized ML Model Documentation | TeraSystemsAI Governance Toolkit

Instructions: Complete all sections below before model deployment. This template follows industry best practices and regulatory requirements including the EU AI Act.

1. Model Details

MODEL NAME

[Enter model name and version identifier]

MODEL VERSION

[e.g., v2.3.1 - Production Release]

MODEL TYPE

[e.g., Classification, Regression, NLP Transformer, Computer Vision CNN]

DEVELOPMENT DATE

[Initial development date and last update]

DEVELOPERS/TEAM

[Team name, lead developer, organization]

MODEL ARCHITECTURE

[Technical description of architecture, parameters, layers]

2. Intended Use

PRIMARY INTENDED USES

[Describe the primary use cases this model is designed for]

PRIMARY INTENDED USERS

[Who will use this model? Internal teams, customers, researchers?]

OUT-OF-SCOPE USES

[Explicitly list uses that are NOT recommended or supported]

3. Training Data

TRAINING DATASET DESCRIPTION

[Describe the training data: source, size, collection methodology]

DATA PREPROCESSING

[Describe preprocessing steps, augmentation, normalization]

DATA REPRESENTATION

[Demographic breakdown, temporal coverage, geographic scope]

4. Evaluation Metrics

Metric	Value	Threshold	Pass/Fail
Accuracy	[Value]	[Min threshold]	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
Precision	[Value]	[Min threshold]	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
Recall	[Value]	[Min threshold]	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
F1 Score	[Value]	[Min threshold]	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
AUC-ROC	[Value]	[Min threshold]	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
Latency (p95)	[Value]	[Max threshold]	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

5. Bias Analysis

5.1 Fairness Metrics by Demographic Group

Demographic Attribute	Group A	Group B	Disparity Ratio	Status
[Attribute 1]	[Metric]	[Metric]	[Ratio]	<input type="checkbox"/> Acceptable <input type="checkbox"/> Review
[Attribute 2]	[Metric]	[Metric]	[Ratio]	<input type="checkbox"/> Acceptable <input type="checkbox"/> Review

5.2 Bias Mitigation Steps

- Training data audited for representation balance
- Fairness constraints applied during training
- Post-hoc calibration performed across groups
- Disparate impact analysis completed
- Third-party bias audit conducted

6. Limitations & Risks

KNOWN LIMITATIONS

[List technical limitations, edge cases, failure modes]

POTENTIAL RISKS

[Describe potential harms if model is misused or fails]

RISK MITIGATION MEASURES

[What safeguards are in place?]

7. Ethical Considerations

- Human oversight mechanisms documented
- Appeals/redress process established
- Transparency requirements met

Privacy impact assessment completed

Stakeholder consultation conducted

8. Deployment & Monitoring

DEPLOYMENT ENVIRONMENT

[Production infrastructure, scaling parameters]

MONITORING PLAN

[KPIs tracked, alert thresholds, review cadence]

RETRAINING SCHEDULE

[Frequency, triggers for retraining]

9. Sign-Off

Role	Name	Signature	Date
ML Engineer			
Data Scientist			
Ethics Review			
Product Owner			
Legal/Compliance			

TeraSystemsAI Governance Toolkit

Model Card Template v2.0 | EU AI Act Compliant

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