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# Toolsheet on Ethical AI Game Design

<https://www.videogames4good.eu>

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**When to use it / Targeted skills:**

Use this tool during or after a learner creates a machine learning model using Google's Teachable Machine. It supports learning in:

- Machine learning basics
- Bias detection and analysis
- User testing and iteration
- Ethical AI awareness

**What You'll do:**

You will create and test a simple machine learning model using Teachable Machine (e.g., an image recognizer), then use a guided worksheet to reflect on its ethical strengths and weaknesses.

**What You'll Need:**

- Internet-connected device with a webcam
- Access to: <https://teachablemachine.withgoogle.com/>
- Ethics Explorer Worksheet (see Annex)
- Pen/pencil or digital notes tool





## How to use it:

### 1. Create Your Model

- Go to Teachable Machine and choose "Image Project."
- Train your model with 2-3 classes (e.g., "Happy Face", "Frown", "Raised Hand").
- Add real-time examples using your webcam.

### 2. Test for Accuracy

- Try different lighting, backgrounds, and people.
- Record when the model works well and when it doesn't.

### 3. Use the Ethics Explorer Worksheet (see Annex 1):

- Section 1 – Accuracy: When did it fail? Who did it work best for?
- Section 2 – Bias: Did it misclassify certain people or situations?
- Section 3 – Data Awareness: What kind of data was used? Could someone feel uncomfortable with it?
- Section 4 – Improvements: How could you fix the problems? More diverse examples? Better labels?

### 4. Group Reflection (Optional)

- Compare your worksheet with a partner's results.
- Discuss: What surprised you? What would you change next time?

## About this template:

This activity is designed to help learners build a model, test it, and reflect critically – key steps in responsible AI development. The worksheet breaks down technical testing into ethical reflection, adapted from real engineering checklists like IEEE's "Ethics in Action."





### **Tips for Reuse / Continuation:**

1. Use this template every time you train a new model.
2. Keep results in a project portfolio for future comparison.
3. Challenge learners to design their own ethics criteria next time.

### **Languages:**

Available in English, French, Czech, Latvian and Italian





## Annex:

Teachable Machine Ethics Explorer Worksheet (includes structured reflection prompts and data tracking table)

### 1. Accuracy

Did the model amake many mistakes? When was it accurate?

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Did the model work differently on different people? Whom did it work best for?

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### 2. Bias

Did the model seem unfair to anyone or any group? When?

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Was there anything in your data that could cause unfair results?

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### 3. Data Awareness

What kind of data did the model use? \_\_\_\_\_

Could the data reveal private or sensitive information? Yes ☐ No ☐

How would you feel if a company was using this data on you?

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### 4. Improvements

What could you do to make the model better or less biased?

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