

AIPI 2022 | Model Card Template

Creator(s):

The purpose of this model card is to provide key information about a specific machine learning model. Model cards increase transparency by communicating information about trained models to broad audiences. You can view real-world model card examples [here](#).

Task: predicting whether or not someone will do a school shooting
Program or Tool Used/Analyzed: Artificial Mass Shooter Predictor (AMSP)

Purpose

*The purpose of a program is **why** it was made (different from how it works). Type a brief description of the program's purpose or give examples of how it could relate to a real-world task.*

<p>It will predict whether or not there may be a shooting. It would be recognizing human behavior, heart rate, etc and whether or not they are armed. Once a threat is identified, the authorities (local law enforcement) would be alerted and everyone in the building would be informed to go outside.</p>

Function

Based on the task being completed, draw your responses from the [Task Reference Document](#). Input/Output should match the task listed above.

Type of Input: Video
Type of Output: If there is a threat (and information about the person)
Description of Data Input: Video from cameras installed in school hallways and rooms

Description of Data Output (e.g. specific categories if classification task): If there is an identified threat, from that the location and information about individual involved

Training Data

Training data is the data that is used to teach a machine learning model.

Where does the training data come from?
Camera footage of security events (like robberies) and 'acted' events
Who is training the model?
Classification models Object recognition
Number of Training Data Samples: Enough to ensure no false alarms
Is the training data labeled? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Ethical Considerations

Consider demographic groups, environmental conditions, safety, privacy, and technical factors/limitations, etc.

1) What could go wrong from an ethical perspective when using this model? 2) What effect would this have? 3) How could this be prevented?

The AI could be considered racial or send false alarms or send no alarm at all when there's a threat. This can cause the AI to completely miss the threat or send a false alarm when it detects a white or black person. We can prevent this by feeding it more data.

The AI might not be able to identify or identify a weapon correctly and send no alarm when there is a threat. This can cause the armed shooter to slip past the AI without getting caught. We can prevent this by feeding it more data of different kinds of weapons and what they look like when hidden.