

# SQUID GAME AI

## Using the squid game to detect bias

In the Netflix Serie SQUID GAME, you have this game called [Red light Green light](#) this is based on an AI system that detects if you move or not. But if you move at a certain state the robot will kill you. And [This article](#) talks about how the 'white man' organizers are like the programmers of an AI.

Personally, I'm interested in how bias can originate in AI. Bias means *a phenomenon that occurs when an AI algorithm produces results that are systemically prejudiced due to erroneous assumptions in the machine learning process*. Looking at the squid game this AI is trained to detect movement but can it make mistakes without it was intended to? Like what if the human would wear a different outfit?



So could you make this Red light Green Light in a game that helps you when Bias starts to originate in AI? Maybe using gamification and over-dramatization could help you understand the errors it may detect?

The image right is an example of how bias can originate within AI. Thus I'm imagining this base could probably work as a video games research project. Where the AI of some sort kills the subjects that are coming to him on some sort of trained parameter. Now you want to know why your subject was killed and understand better if it makes errors.

### How AI systems amplify bias

Image recognition systems that use biased machine learning data sets will inadvertently magnify that bias. Researchers are examining ways to reduce the effects.

COOKING		COOKING		COOKING		COOKING		COOKING	
ROLE	VALUE	ROLE	VALUE	ROLE	VALUE	ROLE	VALUE	ROLE	VALUE
AGENT	WOMAN	AGENT	WOMAN	AGENT	WOMAN	AGENT	WOMAN	AGENT	MAN
FOOD	PASTA	FOOD	FRUIT	FOOD	MEAT	FOOD	VEGETABLES	FOOD	—
HEAT	STOVE	HEAT	—	HEAT	GRILL	HEAT	STOVE	HEAT	STOVE
TOOL	SPATULA	TOOL	KNIFE	TOOL	TONGS	TOOL	TONGS	TOOL	SPATULA
PLACE	KITCHEN	PLACE	KITCHEN	PLACE	OUTSIDE	PLACE	KITCHEN	PLACE	KITCHEN

In this example of gender bias, adapted from a report published by researchers from the University of Virginia and the University of Washington, a visual semantic role labeling system has learned to identify a person cooking as female, even when the image is male.

IMAGES FROM LEFT: PASTA: SHUTTERSTOCK/STOCK, PLACE: LUND/NOEL/STOCK, MEAT: SHUTTERSTOCK/STOCK, VEGETABLES: SHUTTERSTOCK/STOCK, SPATULA: SHUTTERSTOCK/STOCK

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