

Machine Learning & Generative Adversarial Network (GAN)

Activity Sheet

Please use this sheet to record your data from the 3D printing activity sessions.

Materials Needed: Pencil or pen, computer or laptop with internet access.

Background

What do you know about Machine Learning?

Think of examples of Machine Learning. Are you able to list a few times when they've made mistakes?

How could Machine Learning be tricked or confused?

This next part is designed to get you to think like a machine would and try to predict what someone else is thinking!

GAN - Autodraw

Autodraw is an online predictive drawing tool designed by Google. It couples machine learning and artist drawings.

For more information please visit: <https://experiments.withgoogle.com/autodraw>

Let's try testing some of those same drawings that were done on the previous pages with Autodraw!

1. Go to: [Autodraw \(https://www.autodraw.com/\)](https://www.autodraw.com/)
2. Draw your animals on Autodraw and record your results in the table below.

Animal Drawn	Number of Lines/Line Strokes/Clicks (Click and Draw) to Draw Animal?	Did Autodraw guess the correct animal?

When was the computer able to recognize what you were drawing?

Was the computer able to use the same clues that you were to determine what was being drawn?
