Building a Generative Adversarial Network

by John Kundycki

What is a Generative Adversarial Network?

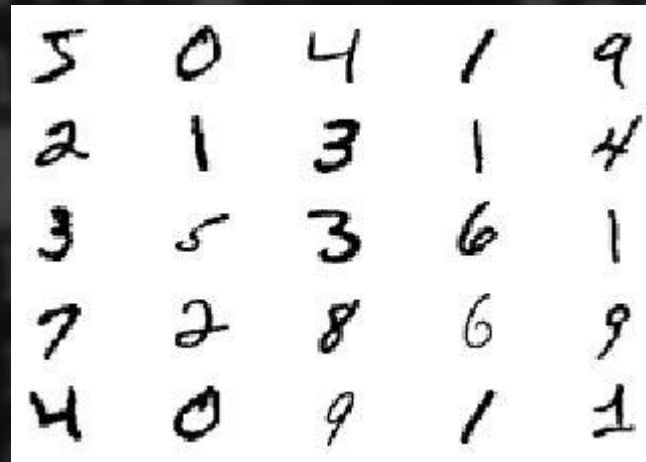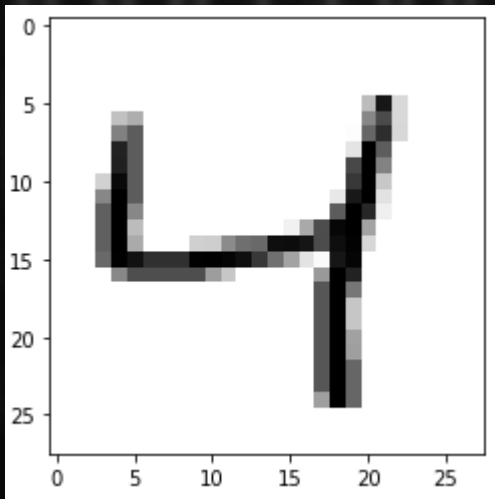# What is a Generative Adversarial Network?

What are GANs used for?

- GANs are a practical tool to a data scientist as they can be used to generate more plausible data from a dataset

- GANs can be used for Image Editing

- GANs can be used to enhance security software

- Generating Images

- GANs are a relatively new type of Deep Learning network, and new applications in the future will be soon to follow
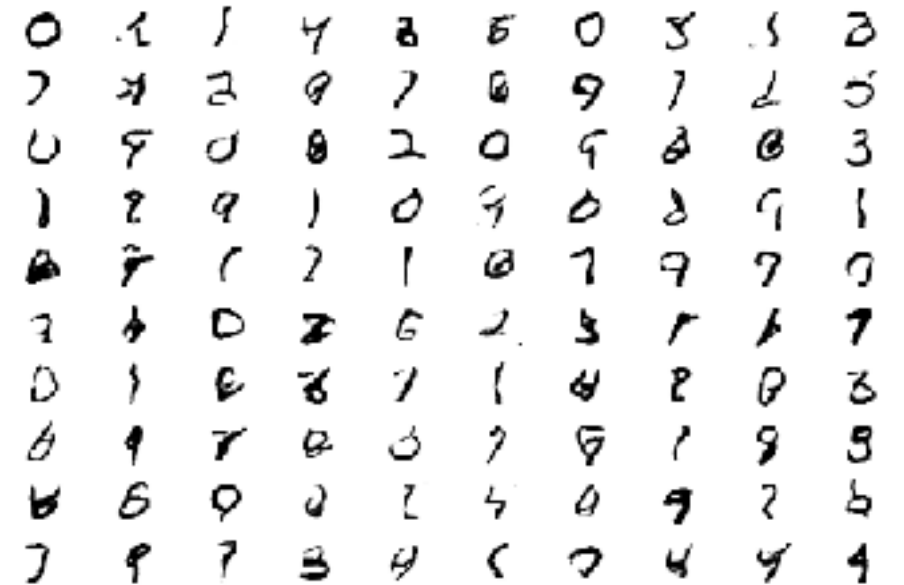
The MNIST Dataset

- The MNIST dataset was used to teach the model to generate handwritten digits similar to those of the dataset

- GANs are computational heavy

- The MNIST dataset contains small pictures that are in gray scale

MNIST Generated Images

Future Work

- As we speak, a model I've created is working on learning how to generate faces

- Hope to use what I've learned in this research project to generate data for my other projects in the future

Questions

Thank you!