LESSON #1
WHAT IS AI?

INTRODUCTIONS

Your facilitators: Name & Name

SHARE YOUR NAME AND YOUR FAVORITE ANIMAL

WRITE AS MANY TERMS AS YOU CAN
REMEMBER FROM LEVEL 1

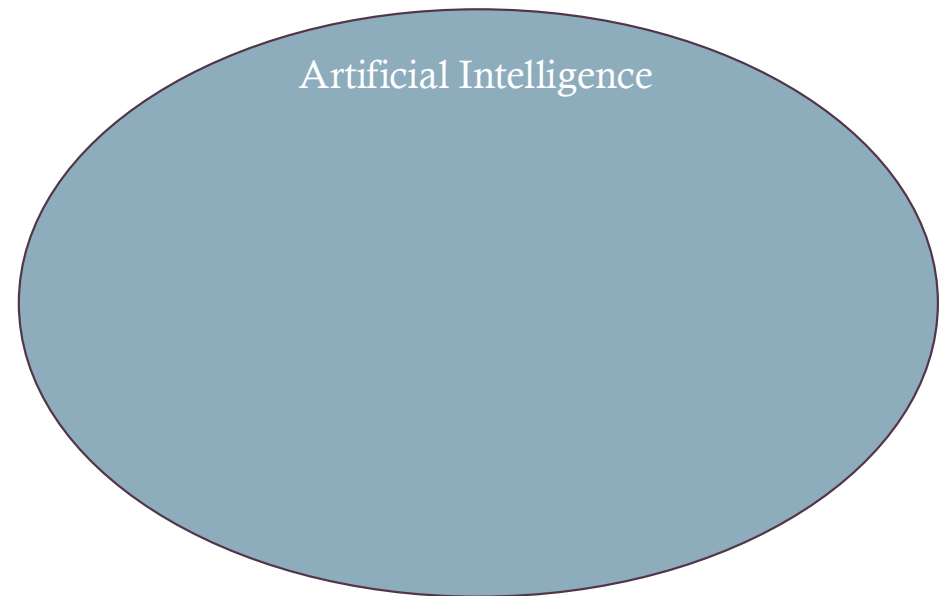# WHAT IS AI?

ARTIFICIAL INTELLIGENCE

A computer system that mimics human intelligence by performing tasks such as:
- Understanding language
- Recognizing patterns
- Making decisions

Definition from Code.org

TYPES OF ARTIFICIAL INTELLIGENCE

- There are many different types of AI

- One of the most common types is called **machine learning**

Artificial Intelligence

MACHINE LEARNING

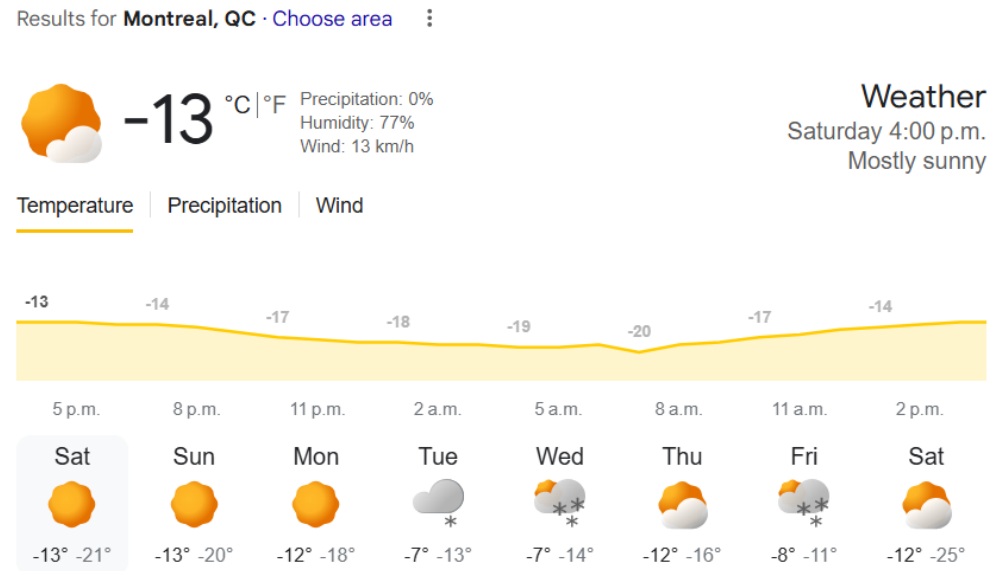We can collect a lot of information about how the world works (called **data**)

We can use this data to make predictions about what will happen in the future.

We call the process of teaching the computer patterns based on data "**training**".
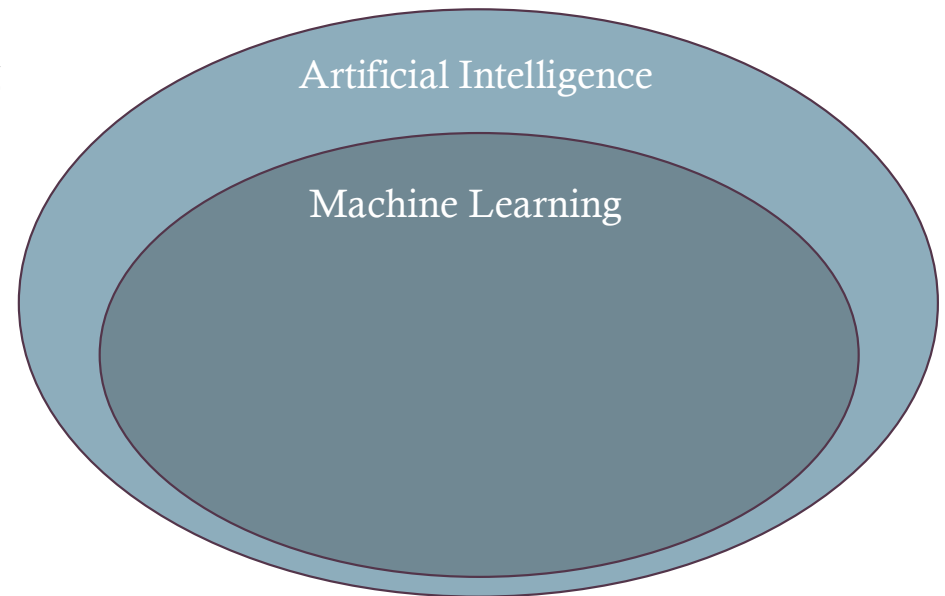
MACHINE LEARNING

Example: Every day we collect data about the temperature outside. We can use past temperature data to predict what the temperature will be like tomorrow
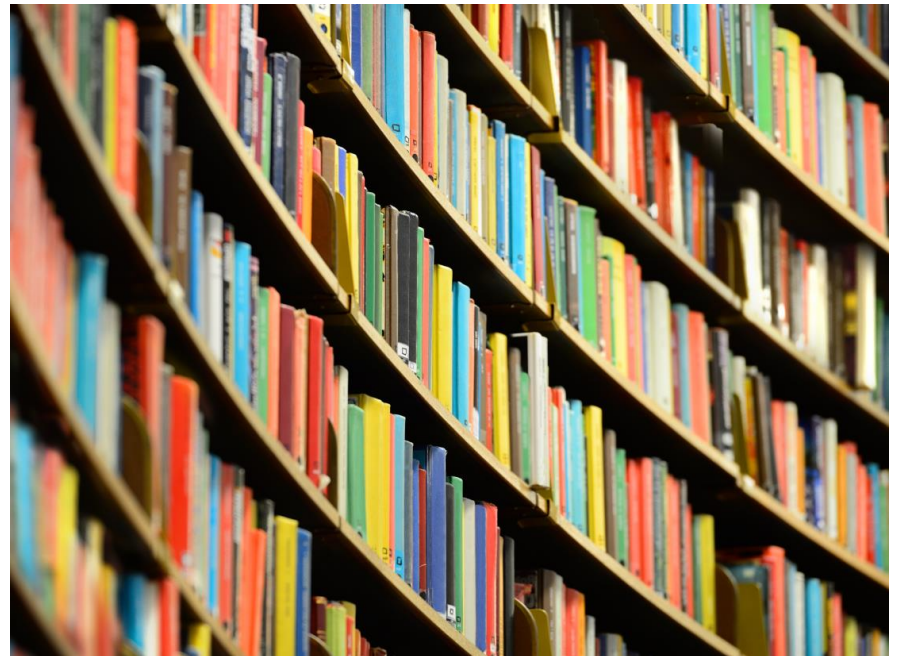
TYPES OF ARTIFICIAL INTELLIGENCE

- Machine learning has been around for a long time.

- One type of machine learning that has been growing quickly recently is **large language models** (LLMs).

LARGE LANGUAGE MODELS (LLMS)

- In the last example, we made our prediction based on a specific set of data.

- What if we made our prediction based on a really big amount text we can get (books, articles, social media, transcripts of YouTube videos)?
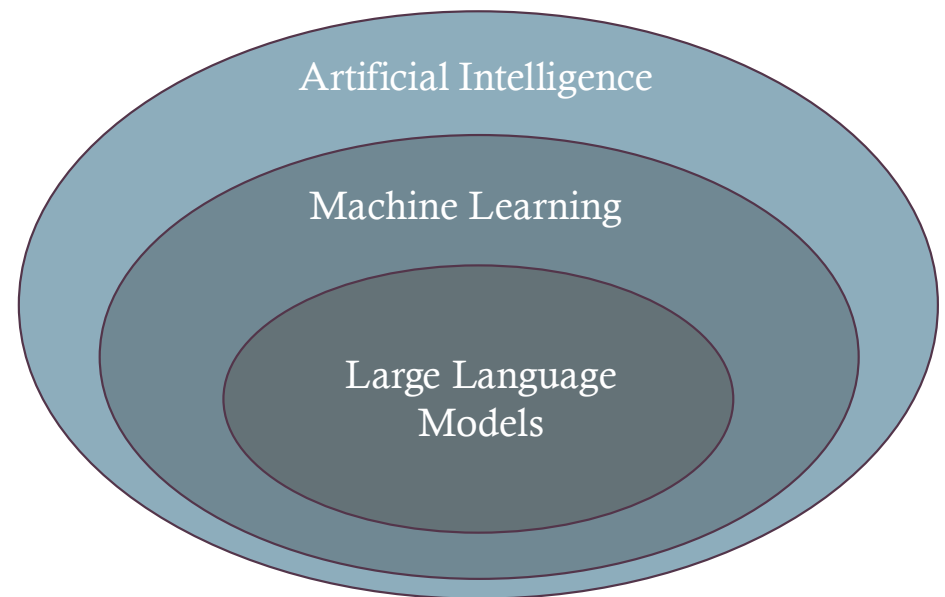
LARGE LANGUAGE MODELS (LLMS)

- We call this a **Large Language Model** (LLM). LLMs are a general form of AI trained on large body of knowledge

- Can you think of examples of LLMs that you have used before?

ChatGPT

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Definition from Code.org

TYPES OF ARTIFICIAL INTELLIGENCE

- That said, LLMs aren't the only type of AI.

- We will be learning about some of them in the next couple of months.

- We will also be using our Python skills to help us.

Artificial Intelligence

Machine Learning

Large Language Models

SETTING UP GOOGLE COLAB

- Open the QR code to open the workbook

- Make your own copy of the workbook

  o File > Save a copy in Drive

- Start working through the problems in the workbook to review our Python skills

https://colab.research.google.com/drive/1x QlCNpeagEfjNadbbW8O50jkwvVYPhHQ? usp=sharing

READ THROUGH THE WORKBOOK AND FOLLOW THE INSTRUCTIONS

- If you need help:
  - o Try Googling an example of the concept
    - ▪ E.g. "Variable Example in Python"
  - o Ask a friend