

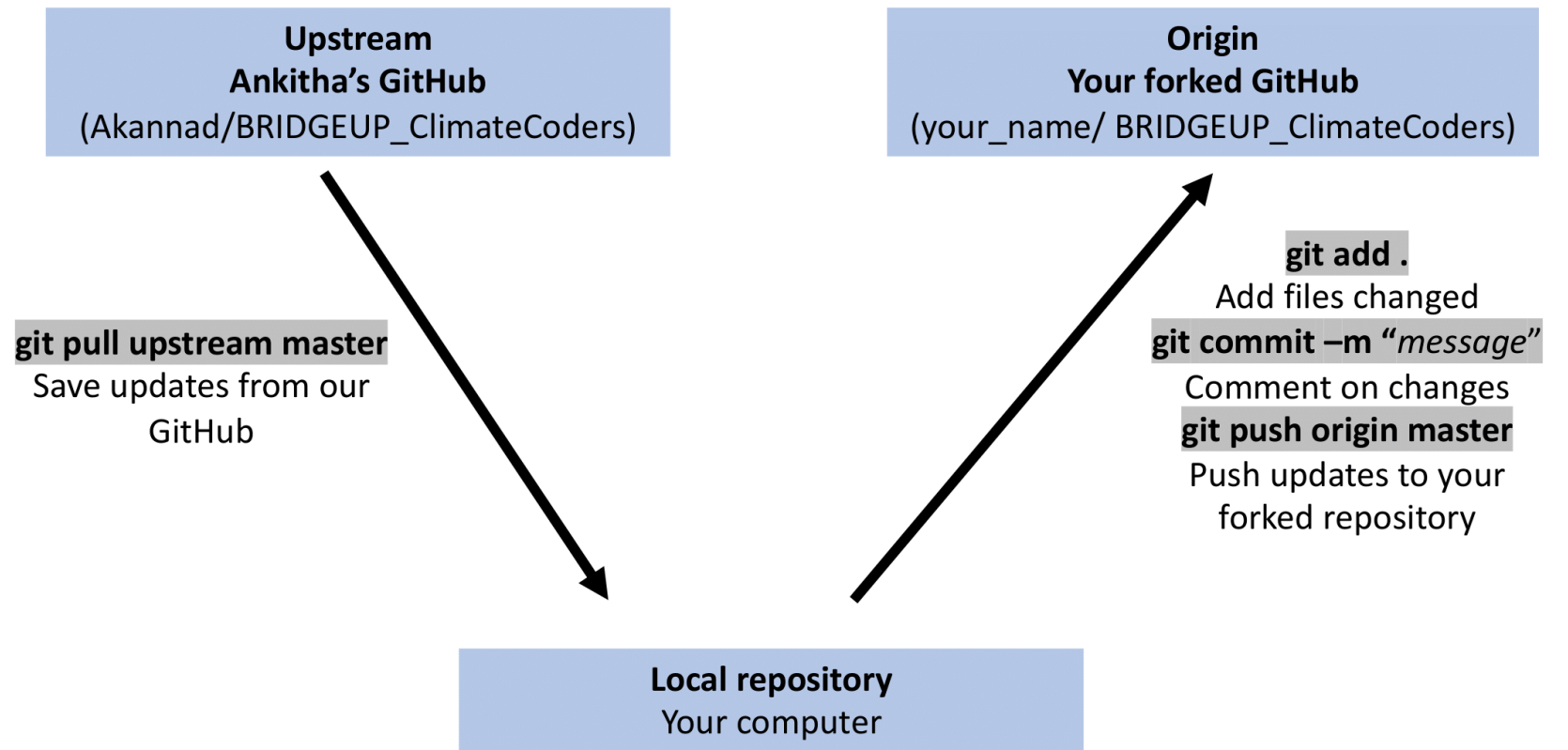
BASICS OF MACHINE LEARNING

UNIT 3: RECONSTRUCTING
CORAL CORE DATA

MARCH 31TH 2020

HOUSEKEEPING

- Personal check-in
- Update cheat sheet
- Whiteboard



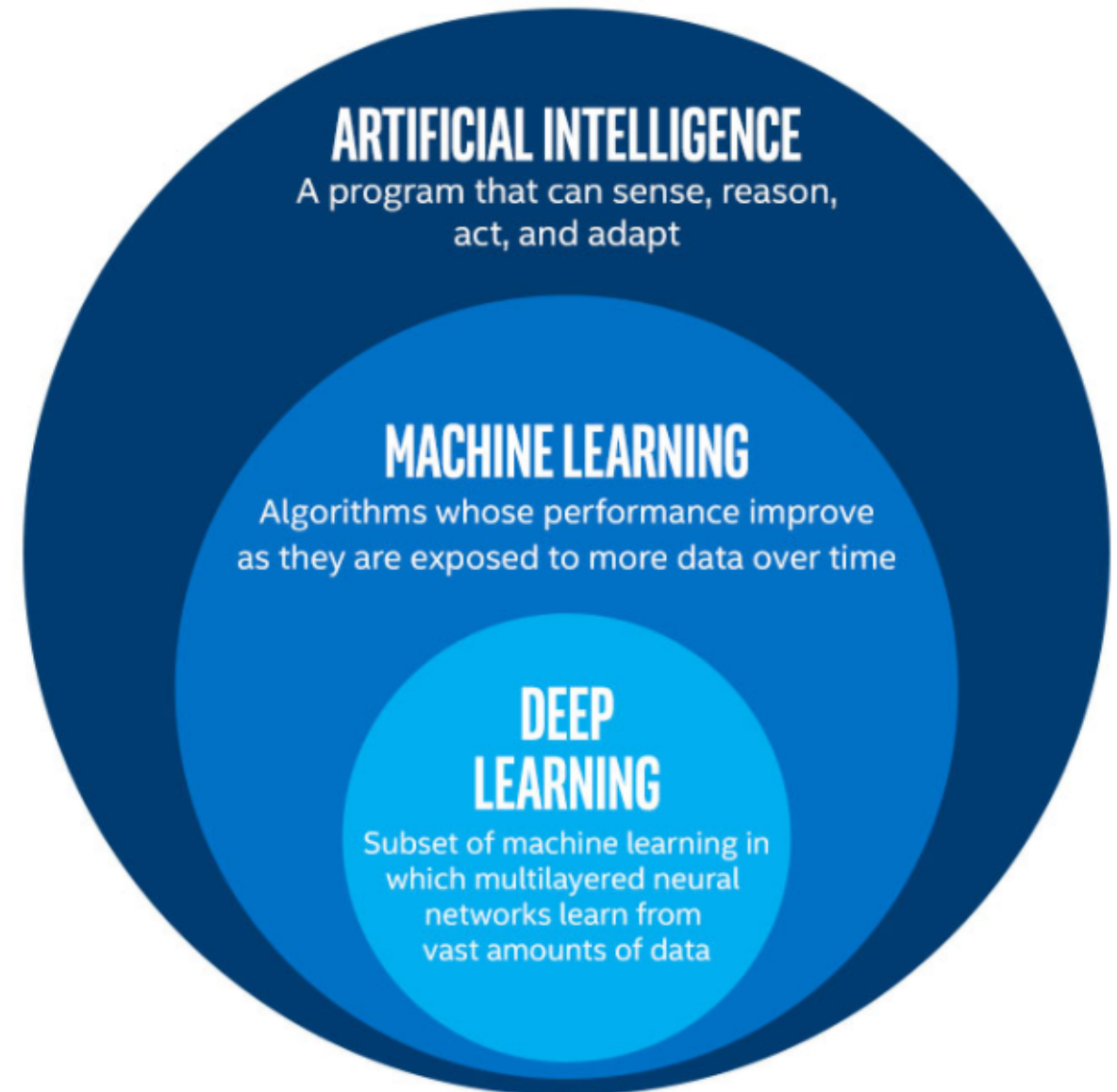
PLAN FOR TODAY

- ❑ Aside: What is AI and machine learning?
- ❑ Finish converting time column to a readable format
- ❑ Update lab notes
- ❑ Exit survey

WHAT IS MACHINE LEARNING?

- On Slack, write down the first thing that pops to your mind when you hear artificial intelligence or machine learning
- Then, watch this quick introduction to machine learning:
 - <https://www.youtube.com/watch?v=OeU5m6vRyCk>

AI VS. MACHINE LEARNING

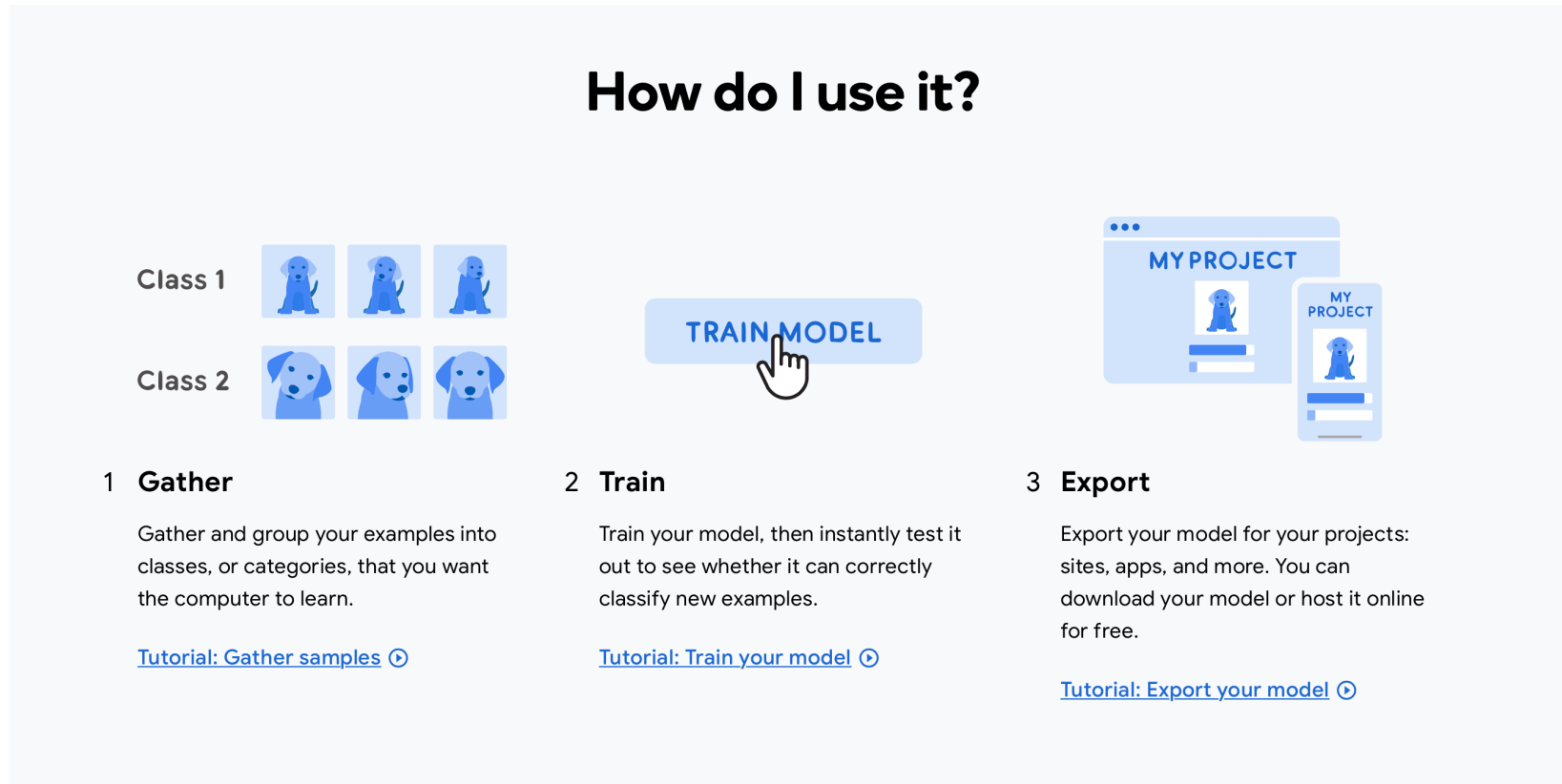


BREAK-OUT ROOMS

- Using the whiteboard feature:
 - Using the classifying images example from the video or one of your own, draw or write out the steps that go into a machine learning algorithm
- Is linear regression a type of machine learning?

LET'S SEE THIS IN PRACTICE!

Google Teachable Machine (<https://teachablemachine.withgoogle.com>)



CODING CHALLENGE

Dates are stored in a digital time format

For example

$1880.5 = 1880 + \frac{1}{2} \text{ of a year} = 06/1880 \text{ or June } 1880$

Goal: Convert your date column into two separate columns of year and month

FUNCTION DISCUSSION

`def convert_dates (any dataframe):`

your script

`return` new dataframe with an additional year and month column

Challenge: Add in a “Day” column where all the entries are 1

```
>>> def add(a, b):  
      c = a+b  
      return c
```

```
>>> print("The sum of a and b is")  
The sum of a and b is  
>>> print(add(4, 5))  
9
```



UPDATE LAB NOTES

The image features a dark gray background with a light blue horizontal bar at the top and bottom. A vertical pink line is positioned to the left of the text. The text "EXIT SURVEY" is centered in a white, sans-serif font.

EXIT SURVEY