Predicting Data

Notes based on: LINK

- The prediction function in TensorFlow outputs prediction for the from the inputs

```
predict(
    x, batch_size=None, verbose=0, steps=None, callbacks=None, max_queue_size=10,
    workers=1, use_multiprocessing=False
)
```

- x
  - x is the input sample, it could be:
    - NumPy array or a list of arrays
    - TensorFlow tensor or a list of tensors
    - tf.data dataset
    - a generator or keras utils
- batch size
  - integer or none
  - default to 32
  - Do not specify if using image generator
- verbose
  - verbosity mode
  - 0 or 1
- steps
  - How many steps it will run before declaring it's finished

    - ignored if is set to none
    - default is none
    - none will go though the dataset until it's exhausted
- callbacks
    - applying keras.callbcaks.Callback instances
- max_queue_size
    - integer
    - for generator or keras.utils.Sequence input only
    - default to 10
- workers
    - Integer
    - for generator or keras.utils.Seuqence input only
    - max number of processes to spin up when using process-based threading
    - default to 1
    - 0 will execute generator on main thread
- use_multiprocessing
    - Boolean
    - used for generator or keras.utils.Sequence input only
    - If True, use process based threading
    - if unspecified default to False

https://s3-us-west-2.amazonaws.com/secure.notion-static.com/036cb3db-4c39-4755-ab55-71b12bcff1b0/predict.ipynb

https://s3-us-west-2.amazonaws.com/secure.notion-static.com/74d7226c-2544-4fb8-b76f-9e764c4776ef/predict.py