data_loader_two_by_two.py

```
import numpy as np
def get_data_set():
  """this creates a list of size n_examples of np arrays, each of size 2x2
  Generators (functions that use yield instead of return) are useful because they only get the subset of data that you
want as opposed to loading the whole set to memory, and only give you the subset once, when called
  To use this, do import data_loader_two_by_two as dat; train_generator, evaluation_generator = get_data_set();
new_train_example=next(train_generator())
  examples = []
  n examples=1000
  for i in range(n_examples):
    array_2d = np.random.rand(2,2)#sample unifrm data in range (0,1) of size 2x2
    examples.append(array_2d)
    #its generating a 2x2 array for each example, but when training, this will be flattened as a 1d aray for each
example
  def training_set():
    #start with an infinite loop, so that you can keep calling next (i.e. set = train_set(); set.next() ) until you run
out of training examples
    while True:
       index = np.random.choice(len(examples))#index of one of the items in our examples
       yield examples[index]
  def evaluation_set():
    #start with an infinite loop, so that you can keep calling next (i.e. set = train_set(); set.next() ) until you run
out of training examples
    while True:
       index = np.random.choice(len(examples))#index of one of the items in our examples
       yield examples[index]
  return training_set, evaluation_set
```