#### TopogrElow

TensorFlow API r1.4

tf.estimator.inputs.numpy\_input\_fn

```
numpy_input_fn(
    x,
    y=None,
    batch_size=128,
    num_epochs=1,
    shuffle=None,
    queue_capacity=1000,
    num_threads=1
)
```

Defined in tensorflow/python/estimator/inputs/numpy\_io.py.

Returns input function that would feed dict of numpy arrays into the model.

This returns a function outputting **features** and **target** based on the dict of numpy arrays. The dict **features** has the same keys as the x.

### Example:

```
age = np.arange(4) * 1.0
height = np.arange(32, 36)
x = {'age': age, 'height': height}
y = np.arange(-32, -28)
with tf.Session() as session:
   input_fn = numpy_io.numpy_input_fn(
        x, y, batch_size=2, shuffle=False, num_epochs=1)
```

# Args:

- x: dict of numpy array object.
- y: numpy array object. None if absent.
- batch\_size: Integer, size of batches to return.
- num\_epochs: Integer, number of epochs to iterate over data. If None will run forever.
- shuffle: Boolean, if True shuffles the queue. Avoid shuffle at prediction time.
- queue\_capacity: Integer, size of queue to accumulate.
- num\_threads: Integer, number of threads used for reading and enqueueing. In order to have predicted and repeatable order of reading and enqueueing, such as in prediction and evaluation mode, num\_threads should be 1.

# Returns:

Function, that has signature of ()->(dict of features, target)

#### Raises:

• ValueError: if the shape of y mismatches the shape of values in x (i.e., values in x have same shape).

• TypeError: x is not a dict or **shuffle** is not bool.

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Last updated November 2, 2017.

