TancarFlow

TensorFlow API r1.4

tf.layers.Input

```
Input(
    shape=None,
    batch_size=None,
    name=None,
    dtype=tf.float32,
    sparse=False,
    tensor=None
)
```

Defined in tensorflow/python/layers/base.py.

Input() is used to instantiate an input tensor for use with a Network.

For instance, if a, b and c are tensors created via Input, it becomes possible to do:

```
network = Network(inputs=[a, b], outputs=c)
```

Example:

```
""
python
# This is a logistic regression
x = tf.layers.Input(shape=(32,))
y = tf.layers.Dense(16, activation='softmax')(x)
network = tf.layers.Network(x, y)
```

Arguments:

- shape: A shape tuple (integer), not including the batch size. For instance, **shape=(32,)** indicates that the expected input will be batches of 32-dimensional vectors.
- batch_size: Optional input batch size (integer or None).
- name: An optional name string for the layer. Should be unique in a model (do not reuse the same name twice). It will be autogenerated if it isn't provided.
- dtype: The data type expected by the input, as a string (float32, float64, int32...)
- sparse: A boolean specifying whether the placeholder to be created is sparse.
- tensor: Optional existing tensor to wrap into the Input layer. If set, the layer will not create a placeholder tensor.

Returns:

A tensor: either a new placeholder (with history metadata) or tensor (if passed), with added history metadata.

Raises:

• RuntimeError: If called in Eager mode.

Last updated November 2, 2017.

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