TanaarElaw

TensorFlow API r1.4

tf.contrib.layers.bias_add

```
bias_add(
   inputs,
   activation_fn=None,
   initializer=tf.zeros_initializer(),
   regularizer=None,
   reuse=None,
   variables_collections=None,
   outputs_collections=None,
   trainable=True,
   data_format=DATA_FORMAT_NHWC,
   scope=None
)
```

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

Adds a bias to the inputs.

Can be used as a normalizer function for conv2d and fully_connected.

Args:

- inputs: A tensor of with at least rank 2 and value for the last dimension, e.g. [batch_size, depth], [None, None, depth].
- activation_fn: Activation function, default set to None to skip it and maintain a linear activation.
- initializer: An initializer for the bias, defaults to 0.
- regularizer: A regularizer like the result of 11_regularizer or 12_regularizer.
- reuse: Whether or not the layer and its variables should be reused. To be able to reuse the layer scope must be given.
- variables_collections: Optional collections for the variables.
- outputs_collections : Collections to add the outputs.
- trainable: If True also add variables to the graph collection GraphKeys.TRAINABLE_VARIABLES (see tf. Variable).
- data_format: A string. 'NHWC' and 'NCHW' are supported.
- scope: Optional scope for variable_scope.

Returns:

A tensor representing the result of adding biases to the inputs.

Raises:

- ValueError: If data_format is neither NHWC nor NCHW.
- ValueError: If data_format is NCHW and rank of inputs is not 4.
- ValueError: If the rank of inputs is undefined.
- ValueError: If rank or C dimension of inputs is undefined.

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