

tf.contrib.layers.dropout

```
dropout(  
    inputs,  
    keep_prob=0.5,  
    noise_shape=None,  
    is_training=True,  
    outputs_collections=None,  
    scope=None  
)
```

Defined in [tensorflow/contrib/layers/python/layers/layers.py](#).

Returns a dropout op applied to the input.

With probability **keep_prob**, outputs the input element scaled up by **1 / keep_prob**, otherwise outputs **0**. The scaling is so that the expected sum is unchanged.

Args:

- **inputs**: The tensor to pass to the nn.dropout op.
- **keep_prob**: A scalar **Tensor** with the same type as x. The probability that each element is kept.
- **noise_shape**: A 1-D **Tensor** of type **int32**, representing the shape for randomly generated keep/drop flags.
- **is_training**: A bool **Tensor** indicating whether or not the model is in training mode. If so, dropout is applied and values scaled. Otherwise, inputs is returned.
- **outputs_collections**: Collection to add the outputs.
- **scope**: Optional scope for name_scope.

Returns:

A tensor representing the output of the operation.

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