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## Module: tf.keras.activations

## **Functions**

<pre>deserialize() (https://www.tensorflow.org/api_docs/python/tf/keras/activations/deserialize):</pre> Returns activation function given a string identifier.
<u>elu()</u> (https://www.tensorflow.org/api_docs/python/tf/keras/activations/elu): Exponential Linear Unit.
<pre>exponential() (https://www.tensorflow.org/api_docs/python/tf/keras/activations/exponential):</pre> Exponential activation function.
<pre>gelu() (https://www.tensorflow.org/api_docs/python/tf/keras/activations/gelu): Applies the Gaussian error linear unit (GELU) activation function.</pre>
<pre>get() (https://www.tensorflow.org/api_docs/python/tf/keras/activations/get): Returns function.</pre>
<pre>hard_sigmoid() (https://www.tensorflow.org/api_docs/python/tf/keras/activations/hard_sigmoid) Hard sigmoid activation function.</pre>
<u>linear()</u> (https://www.tensorflow.org/api_docs/python/tf/keras/activations/linear): Linear activation function (pass-through).
<pre>mish() (https://www.tensorflow.org/api_docs/python/tf/keras/activations/mish): Mish activation function.</pre>
<u>relu()</u> (https://www.tensorflow.org/api_docs/python/tf/keras/activations/relu): Applies the rectified linear unit activation function.

selu(...) (https://www.tensorflow.org/api\_docs/python/tf/keras/activations/selu): Scaled Exponential Linear Unit (SELU). serialize(...) (https://www.tensorflow.org/api\_docs/python/tf/keras/activations/serialize): Returns the string identifier of an activation function. sigmoid(...) (https://www.tensorflow.org/api\_docs/python/tf/keras/activations/sigmoid): Sigmoid activation function, sigmoid(x) = 1 / (1 + exp(-x)). softmax(...) (https://www.tensorflow.org/api\_docs/python/tf/keras/activations/softmax): Softmax converts a vector of values to a probability distribution. softplus(...) (https://www.tensorflow.org/api\_docs/python/tf/keras/activations/softplus): Softplus activation function, softplus(x) = log(exp(x) + 1). softsign(...) (https://www.tensorflow.org/api\_docs/python/tf/keras/activations/softsign): Softsign activation function, softsign(x) = x / (abs(x) + 1). <u>swish(...)</u> (https://www.tensorflow.org/api\_docs/python/tf/keras/activations/swish): Swish activation function, swish(x) = x \* sigmoid(x). tanh(...) (https://www.tensorflow.org/api\_docs/python/tf/keras/activations/tanh): Hyperbolic tangent activation function.

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