TopogrElow

TensorFlow API r1.4

 $tf.contrib.bayesflow.stochastic_tensor.BaseStochasticTensor$

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Class BaseStochasticTensor

Defined in tensorflow/contrib/bayesflow/python/ops/stochastic_tensor_impl.py.

See the guide: BayesFlow Stochastic Tensors (contrib) > Stochastic Tensor Classes

Base Class for Tensor-like objects that emit stochastic values.

Properties

dtype

graph

name

Methods

__init__

__init__()

loss

loss(sample_loss)

Returns the term to add to the surrogate loss.

This method is called by **surrogate_loss**. The input **sample_loss** should have already had **stop_gradient** applied to it. This is because the surrogate_loss usually provides a Monte Carlo sample term of the form **differentiable_surrogate** * **sample_loss** where **sample_loss** is considered constant with respect to the input for purposes of the gradient.

Args:

sample_loss: Tensor, sample loss downstream of this StochasticTensor.

Returns:	
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Either None or a Tensor.

value

value(name=None)

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