TensorFlow   API r1.4

Module: tf.contrib.kfac.fisher_factors

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Defined in **tensorflow/contrib/kfac/python/ops/fisher_factors_lib.py** .

FisherFactor definitions.

Classes

class ConvDiagonalFactor : FisherFactor for a diagonal approx of a convolutional layer's Fisher.

class ConvInputKroneckerFactor : Kronecker factor for the input side of a convolutional layer.

class ConvOutputKroneckerFactor : Kronecker factor for the output side of a convolutional layer.

class DiagonalFactor : A base class for FisherFactors that use diagonal approximations.

class FisherFactor : Base class for objects modeling factors of approximate Fisher blocks.

class FullFactor : FisherFactor for a full matrix representation of the Fisher of a parameter.

class FullyConnectedDiagonalFactor : FisherFactor for a diagonal approx of a fully-connected layer's Fisher.

class FullyConnectedKroneckerFactor : Kronecker factor for the input or output side of a fully-connected layer.

class InverseProvidingFactor : Base class for FisherFactors that maintain inverses, powers, etc of _cov.

class NaiveDiagonalFactor : FisherFactor for a diagonal approximation of any type of param's Fisher.

Functions

covariance_initializer(...)

diagonal_covariance_initializer(...)

inverse_initializer(...)

scalar_or_tensor_to_string(...)

scope_string_from_name(...)

scope_string_from_params(...) : Builds a variable scope string name from the given parameters.

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