tf.contrib.kfac.fisher_factors.NaiveDiagonalFactor

Contents

Class `NaiveDiagonalFactor`

Inherits From: `DiagonalFactor`

Defined in `tensorflow/contrib/kfac/python/ops/fisher_factors.py`.

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

Note that this uses the naive "square the sum estimator", and so is applicable to any type of parameter in principle, but has very high variance.

Methods

`__init__`

```
__init__(
    params_grads,
    batch_size
)
```

`get_cov`

```
get_cov()
```

`instantiate_covariance`

```
instantiate_covariance()
```

Instantiates the covariance Variable as the instance member _cov.

`make_covariance_update_op`

```
make_covariance_update_op(ema_decay)
```

Constructs and returns the covariance update Op.

Args:

- `ema_decay`: The exponential moving average decay (float or Tensor).

Returns:

An Op for updating the covariance Variable referenced by _cov.

`make_inverse_update_ops`

```
make_inverse_update_ops()
```

Create and return update ops corresponding to registered computations.
