TencorFlow

TensorFlow API r1.4

tf.keras.backend.batch_normalization

```
batch_normalization(
    x,
    mean,
    var,
    beta,
    gamma,
    epsilon=0.001
)
```

Defined in tensorflow/python/keras/_impl/keras/backend.py.

Applies batch normalization on x given mean, var, beta and gamma.

```
l.e. returns: output = (x - mean) / (sqrt(var) + epsilon) * gamma + beta
```

Arguments:

- x: Input tensor or variable.
- mean: Mean of batch.
- var: Variance of batch.
- beta: Tensor with which to center the input.
- gamma: Tensor by which to scale the input.
- epsilon: Fuzz factor.

Returns:

A tensor.

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