

tf.contrib.gan.eval.classifier_score

Contents

Aliases:

Aliases:

- `tf.contrib.gan.eval.classifier_metrics.classifier_score`
- `tf.contrib.gan.eval.classifier_score`

```
classifier_score(  
    images,  
    classifier_fn,  
    num_batches=1  
)
```

Defined in [tensorflow/contrib/gan/python/eval/python/classifier_metrics_impl.py](#).

Classifier score for evaluating a conditional generative model.

This is based on the Inception Score, but for an arbitrary classifier.

This technique is described in detail in <https://arxiv.org/abs/1606.03498>. In summary, this function calculates $\exp(E[KL(p(y|x) || p(y))])$

which captures how different the network's classification prediction is from the prior distribution over classes.

Args:

- `images`: Images to calculate the classifier score for.
- `classifier_fn`: A function that takes images and produces logits based on a classifier.
- `num_batches`: Number of batches to split `generated_images` in to in order to efficiently run them through the classifier network.

Returns:

The classifier score. A floating-point scalar.

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