

tf.contrib.gan.eval.run_inception

Contents

Aliases:

Aliases:

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

```
run_inception(  
    images,  
    graph_def=None,  
    default_graph_def_fn=_default_graph_def_fn,  
    image_size=INCEPTION_V3_DEFAULT_IMG_SIZE,  
    input_tensor=INCEPTION_V3_INPUT,  
    output_tensor=INCEPTION_V3_OUTPUT  
)
```

Defined in `tensorflow/contrib/gan/python/eval/python/classifier_metrics_impl.py`.

Run images through a pretrained Inception classifier.

Args:

- `images` : Input tensors. Must be [batch, height, width, channels]. Input shape and values must be in [-1, 1], which can be achieved using `preprocess_image`.
- `graph_def` : A GraphDef proto of a pretrained Inception graph. If `None`, call `default_graph_def_fn` to get GraphDef.
- `default_graph_def_fn` : A function that returns a GraphDef. Used if `graph_def` is `None`. By default, returns a pretrained InceptionV3 graph.
- `image_size` : Required image width and height. See unit tests for the default values.
- `input_tensor` : Name of input Tensor.
- `output_tensor` : Name of output Tensor. This function will compute activations at the specified layer. Examples include `INCEPTION_V3_OUTPUT` and `INCEPTION_V3_FINAL_POOL` which would result in this function computing the final logits or the penultimate pooling layer.

Returns:

Logits.

Raises:

- `ValueError` : If images are not the correct size.
- `ValueError` : If neither `graph_def` nor `default_graph_def_fn` are provided.

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Last updated November 2, 2017.

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