tf.contrib.gan.InfoGANModel

Class **InfoGANModel**

Defined in **tensorflow/contrib/gan/python/namedtuples.py** .

An InfoGANModel contains all the pieces needed for InfoGAN training.

See https://arxiv.org/abs/1606.03657 for more details.

Args:

- `structured_generator_inputs` : A list of Tensors representing the random noise that must have high mutual information with the generator output. List length should match `predicted_distributions` .
- `predicted_distributions` : A list of tf.Distributions. Predicted by the recognizer, and used to evaluate the likelihood of the structured noise. List length should match `structured_generator_inputs` .

Properties

discriminator_fn

Alias for field number 10

discriminator_gen_outputs

Alias for field number 7

discriminator_real_outputs

Alias for field number 6

discriminator_scope

Alias for field number 9

discriminator_variables

Alias for field number 8

generated_data

Alias for field number 1

generator_fn

Alias for field number 4

generator_inputs

Alias for field number 0

generator_scope

Alias for field number 3

generator_variables

Alias for field number 2

predicted_distributions

Alias for field number 12

real_data

Alias for field number 5

structured_generator_inputs

Alias for field number 11

Methods

__new__

```
__new__(
    _cls,
    generator_inputs,
    generated_data,
    generator_variables,
    generator_scope,
    generator_fn,
    real_data,
    discriminator_real_outputs,
    discriminator_gen_outputs,
    discriminator_variables,
    discriminator_scope,
    discriminator_fn,
    structured_generator_inputs,
    predicted_distributions
)
```

Create new instance of InfoGANModel(generator_inputs, generated_data, generator_variables, generator_scope, generator_fn, real_data, discriminator_real_outputs, discriminator_gen_outputs, discriminator_variables, discriminator_scope, discriminator_fn, structured_generator_inputs, predicted_distributions)

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