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TensorFlow API r1.4

tf.contrib.learn.Trainable

```
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Class Trainable

Defined in tensorflow/contrib/learn/python/learn/trainable.py.

See the guide: Learn (contrib) > Estimators

Interface for objects that are trainable by, e.g., Experiment.

Methods

fit

```
fit(
    x=None,
    y=None,
    input_fn=None,
    steps=None,
    batch_size=None,
    monitors=None,
    max_steps=None
)
```

Trains a model given training data x predictions and y labels.

Args:

- x: Matrix of shape [n_samples, n_features...] or the dictionary of Matrices. Can be iterator that returns arrays of
 features or dictionary of arrays of features. The training input samples for fitting the model. If set, input_fn must be
 None.
- y: Vector or matrix [n_samples] or [n_samples, n_outputs] or the dictionary of same. Can be iterator that returns array of labels or dictionary of array of labels. The training label values (class labels in classification, real numbers in regression). If set, input_fn must be None. Note: For classification, label values must be integers representing the class index (i.e. values from 0 to n_classes-1).
- input_fn: Input function returning a tuple of: features **Tensor** or dictionary of string feature name to **Tensor**. labels **Tensor** or dictionary of **Tensor** with labels. If input_fn is set, x, y, and **batch_size** must be **None**.
- steps: Number of steps for which to train model. If **None**, train forever. 'steps' works incrementally. If you call two times fit(steps=10) then training occurs in total 20 steps. If you don't want to have incremental behavior please set **max_steps** instead. If set, **max_steps** must be **None**.
- batch_size: minibatch size to use on the input, defaults to first dimension of x. Must be None if input_fn is provided.

- monitors: List of BaseMonitor subclass instances. Used for callbacks inside the training loop.
- max_steps: Number of total steps for which to train model. If None, train forever. If set, steps must be None.

Two calls to **fit(steps=100)** means 200 training iterations. On the other hand, two calls to **fit(max_steps=100)** means that the second call will not do any iteration since first call did all 100 steps.

Returns:

self, for chaining.

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Last updated November 2, 2017.

