

tf.contrib.estimator.forward_features

```
forward_features(  
    estimator,  
    keys=None  
)
```

Defined in [tensorflow/contrib/estimator/python/estimator/extenders.py](#).

Forward features to predictions dictionary.

In some cases, user wants to see some of the features in estimators prediction output. As an example, consider a batch prediction service: The service simply runs inference on the users graph and returns the results. Keys are essential because there is no order guarantee on the outputs so they need to be rejoined to the inputs via keys or transclusion of the inputs in the outputs.

Example:

```
def input_fn():  
    features, labels = ...  
    features['unique_example_id'] = ...  
    features, labels  
  
    estimator = tf.estimator.LinearClassifier(...)  
    estimator = tf.contrib.estimator.forward_features(  
        estimator, 'unique_example_id')  
    estimator.train(...)  
    assert 'unique_example_id' in estimator.predict(...)
```

Args:

- **estimator**: A `{tf.estimator.Estimator}` object.
- **keys**: a **string** or a **list** of **string**. If it is **None**, all of the **features** in **dict** is forwarded to the **predictions**. If it is a **string**, only given key is forwarded. If it is a **list** of strings, all the given **keys** are forwarded.

Returns:

A new `{tf.estimator.Estimator}` which forwards features to predictions.

Raises:

- **ValueError**: * if **keys** is already part of **predictions**. We don't allow override.
 - if 'keys' does not exist in **features**.
 - if feature key refers to a **SparseTensor**, since we don't support **SparseTensor** in **predictions**. **SparseTensor** is common in **features**.
- **TypeError**: if **keys** type is not one of **string** or list/tuple of **string**.

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