TopogrElow

TensorFlow API r1.4

tf.contrib.lookup.MutableHashTable

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Inherits From: LookupInterface

Defined in tensorflow/contrib/lookup/lookup_ops.py.

A generic mutable hash table implementation.

Data can be inserted by calling the insert method. It does not support initialization via the init method.

Example usage:

Properties

init

The table initialization op.

key_dtype

The table key dtype.

name

The name of the table.

value_dtype

The table value dtype.

__init__

```
__init__(
    key_dtype,
    value_dtype,
    default_value,
    shared_name=None,
    name='MutableHashTable',
    checkpoint=True
)
```

Creates an empty MutableHashTable object.

Creates a table, the type of its keys and values are specified by key_dtype and value_dtype, respectively.

Args:

- key_dtype : the type of the key tensors.
- value_dtype: the type of the value tensors.
- default_value: The value to use if a key is missing in the table.
- shared_name: If non-empty, this table will be shared under the given name across multiple sessions.
- name: A name for the operation (optional).
- checkpoint: if True, the contents of the table are saved to and restored from checkpoints. If shared_name is empty
 for a checkpointed table, it is shared using the table node name.

Returns:

A MutableHashTable object.

Raises:

• ValueError: If checkpoint is True and no name was specified.

export

```
export(name=None)
```

Returns tensors of all keys and values in the table.

Args:

• name: A name for the operation (optional).

Returns:

A pair of tensors with the first tensor containing all keys and the second tensors containing all values in the table.

insert

```
insert(
   keys,
   values,
   name=None
)
```

Associates keys with values.

Args:

- keys: Keys to insert. Can be a tensor of any shape. Must match the table's key type.
- values: Values to be associated with keys. Must be a tensor of the same shape as keys and match the table's value type.
- name: A name for the operation (optional).

Returns:

The created Operation.

Raises:

• TypeError: when keys or values doesn't match the table data types.

1ookup

```
lookup(
   keys,
   name=None
)
```

Looks up keys in a table, outputs the corresponding values.

The default_value is used for keys not present in the table.

Args:

- keys: Keys to look up. Can be a tensor of any shape. Must match the table's key_dtype.
- name: A name for the operation (optional).

Returns:

A tensor containing the values in the same shape as keys using the table's value type.

Raises:

• TypeError: when keys do not match the table data types.

size

```
size(name=None)
```

Compute the number of elements in this table.

Args:

• name: A name for the operation (optional).

Returns:

A scalar tensor containing the number of elements in this table.

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