

tf.contrib.estimator.multi_class_head

```
multi_class_head(  
    n_classes,  
    weight_column=None,  
    label_vocabulary=None,  
    name=None  
)
```

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

Creates a `_Head` for multi class classification.

Uses `sparse_softmax_cross_entropy` loss.

This head expects to be fed integer labels specifying the class index.

Args:

- `n_classes`: Number of classes, must be greater than 2 (for 2 classes, use `binary_classification_head`).
- `weight_column`: A string or a `_NumericColumn` created by `tf.feature_column.numeric_column` defining feature column representing weights. It is used to down weight or boost examples during training. It will be multiplied by the loss of the example.
- `label_vocabulary`: A list of strings represents possible label values. If it is not given, that means labels are already encoded as integer within $[0, n_classes)$. If given, labels must be string type and have any value in `label_vocabulary`. Also there will be errors if vocabulary is not provided and labels are string.
- `name`: name of the head. If provided, summary and metrics keys will be suffixed by `"/" + name`.

Returns:

An instance of `_Head` for multi class classification.

Raises:

- `ValueError`: if `n_classes`, `metric_class_ids` or `label_keys` is invalid.

Except as otherwise noted, the content of this page is licensed under the [Creative Commons Attribution 3.0 License](#), and code samples are licensed under the [Apache 2.0 License](#). For details, see our [Site Policies](#). Java is a registered trademark of Oracle and/or its affiliates.

Last updated November 2, 2017.

Stay Connected

[Blog](#)

[GitHub](#)

[Twitter](#)

Support

[Issue Tracker](#)

[Release Notes](#)

[Stack Overflow](#)

English

[Terms](#) | [Privacy](#)