Python Code Examples for get activation function

13 Python code examples are found related to "get activation function". These examples are extracted from open source projects. You can vote up the ones you like or vote down the ones you don't like, and go to the original project or source file by following the links above each example.

Example 1

Project: *madminer* Author: *diana-hep* File: utils.py License: MIT License 6 votes

```
def get_activation_function(activation):
    if activation == "relu":
        return torch.relu
    elif activation == "tanh":
        return torch.tanh
    elif activation == "sigmoid":
        return torch.relu
    elif activation == "lrelu":
        return F.leaky_relu
    elif activation == "rrelu":
        return torch.rrelu
    elif activation == "prelu":
        return torch.prelu
    elif activation == "elu":
        return F.elu
    elif activation == "selu":
        return torch.selu
    elif activation == "log_sigmoid":
        return F.logsigmoid
    elif activation == "softplus":
        return F.softplus
    else:
        raise ValueError("Activation function %s unknown", activation)
```

Example 2

```
def get_activation_function_by_name(
    activation_fn_name: Optional[str],
) -> Optional[Callable[[tf.Tensor], tf.Tensor]]:
    """Convert from an activation function name to the function itself."""
    if activation_fn_name is None:
        return None
    activation_fn_name = activation_fn_name.lower()

    string_to_activation_fn = {
        "linear": None,
        "tanh": tf.nn.tanh,
        "relu": tf.nn.relu,
        "leaky_relu": tf.nn.leaky_relu,
        "elu": tf.nn.elu,
        "selu": tf.nn.selu,
        "gelu": gelu,
    }
    activation_fn = string_to_activation_fn.get(activation_fn_name)
    if activation_fn is None:
        raise ValueError(f"Unknown activation function: {activation_fn_name}")
    return activation_fn
```

Example 3

Project: *coach* Author: *NervanaSystems* File: utils.py License: Apache License 2.0 6 votes

```
def get_activation_function(activation_function_string: str):
    """
    Map the activation function from a string to the tensorflow framework equivalent
    :param activation_function_string: the type of the activation function
    :return: the tensorflow activation function
    """
    activation_functions = {
        'relu': tf.nn.relu,
        'tanh': tf.nn.tanh,
        'sigmoid': tf.nn.sigmoid,
        'elu': tf.nn.elu,
```

```
        'leaky_relu': tf.nn.leaky_relu,
        'none': None
    }
    assert activation_function_string in activation_functions.keys(), \
        "Activation function must be one of the following {}. instead it was: {}" \
            .format(activation_functions.keys(), activation_function_string)
    return activation_functions[activation_function_string]
```

Example 4

Project: *MicroMLP* Author: *jczic* File: microMLP.py License: MIT License 6 votes

```
def GetActivationFunction(actFuncName) :
        if actFuncName :
            funcs = {
                MicroMLP.ACTFUNC_HEAVISIDE : MicroMLP.HeavisideActivation,
                MicroMLP.ACTFUNC_SIGMOID   : MicroMLP.SigmoidActivation,
                MicroMLP.ACTFUNC_TANH      : MicroMLP.TanHActivation,
                MicroMLP.ACTFUNC_SOFTPLUS  : MicroMLP.SoftPlusActivation,
                MicroMLP.ACTFUNC_RELU      : MicroMLP.ReLUActivation,
                MicroMLP.ACTFUNC_GAUSSIAN  : MicroMLP.GaussianActivation
            }
            if actFuncName in funcs :
                return funcs[actFuncName]
        return None
```

Example 5

Project: *chemprop* Author: *wengong-jin* File: nn_utils.py License: MIT License 6 votes

```
def get_activation_function(activation: str) -> nn.Module:
    """
    Gets an activation function module given the name of the activation.

    :param activation: The name of the activation function.
    :return: The activation function module.
    """
    if activation == 'ReLU':
        return nn.ReLU()
```