

CSE-5368-001 Neural Networks
Spring 2023 Quiz 06

Time: 12 Minutes

Complete the code for the following function.

This function is the same as the **initialization part of the Assignment_01**.

```
import numpy as np

def multi_layer_nn(X_train, Y_train, layers, seed=2):
# This function initializes all the weights and
# returns weight matrices in a list
# bias should be included in the weight matrix.
# X_train: Array of input for training [input_dimensions, nof_train_samples]
# Y_train: Array of desired outputs [output_dimensions, nof_train_samples]
# layers: array of integers representing number of nodes in each layer
# return: This function should return a list of weight matrices.
# Each element of the list corresponds to the weight matrix of the
# corresponding layer.
# Initialize the weights for each layer by:
# np.random.seed(seed)
# np.random.randn()
```