(3.9.6) akshaysyal@Akshays-Laptop Neural_Network_from_scratch % /Users/akshaysyal/.pyenv/versions/3.9.6/bin/python /Users/akshaysyal/Desktop/Neural_Network_from_scratch/ML-Algorithms-From-Scratch/Neural-Netw
orks-from-scratch/nn_starter.py
Epoch 1/30 Train Loss: 0.5452, Val Loss: 0.5864, Train Acc: 0.8331, Val Acc: 0.8306
Epoch 2/30 Train Loss: 0.3308, Val Loss: 0.3765, Train Acc: 0.8619, Val Acc: 0.8595
Epoch 3/30 Train Loss: 0.2319, Val Loss: 0.2507, Train Acc: 0.8787, Val Acc: 0.8742
Epoch 4/30 Train Loss: 0.1932, Val Loss: 0.1785, Train Acc: 0.8870, Val Acc: 0.8855
/Users/akshaysyal/Desktop/Neural_Network_from_scratch/ML-Algorithms-From-Scratch/Neural-Networks-from-scratch/nn_starter.py:22: RuntimeWarning: overflow encountered in exp
  s = 1 / (1 + np.exp(-x))
Epoch 5/30 Train Loss: 0.1418, Val Loss: 0.1391, Train Acc: 0.8911, Val Acc: 0.8890
Epoch 6/30 Train Loss: 0.1173, Val Loss: 0.1180, Train Acc: 0.8929, Val Acc: 0.8894
Epoch 7/30 Train Loss: 0.1096, Val Loss: 0.1092, Train Acc: 0.8931, Val Acc: 0.8920
Epoch 8/30 Train Loss: 0.0999, Val Loss: 0.1173, Train Acc: 0.8930, Val Acc: 0.8890
Epoch 9/30 Train Loss: 0.0910, Val Loss: 0.1321, Train Acc: 0.8936, Val Acc: 0.8894
Epoch 10/30 Train Loss: 0.0860, Val Loss: 0.1320, Train Acc: 0.8938, Val Acc: 0.8897
Epoch 11/30 Train Loss: 0.0780, Val Loss: 0.1209, Train Acc: 0.8943, Val Acc: 0.8914
Epoch 12/30 Train Loss: 0.0772, Val Loss: 0.1260, Train Acc: 0.8969, Val Acc: 0.8920
Epoch 13/30 Train Loss: 0.0722, Val Loss: 0.1152, Train Acc: 0.9001, Val Acc: 0.8965
Epoch 14/30 Train Loss: 0.0742, Val Loss: 0.1023, Train Acc: 0.9022, Val Acc: 0.8984
Epoch 15/30 Train Loss: 0.0718, Val Loss: 0.0996, Train Acc: 0.9060, Val Acc: 0.9001
Epoch 16/30 Train Loss: 0.0687, Val Loss: 0.0883, Train Acc: 0.9086, Val Acc: 0.9029
Epoch 17/30 Train Loss: 0.0724, Val Loss: 0.0881, Train Acc: 0.9118, Val Acc: 0.9054
Epoch 18/30 Train Loss: 0.0721, Val Loss: 0.0858, Train Acc: 0.9140, Val Acc: 0.9077
Epoch 19/30 Train Loss: 0.0751, Val Loss: 0.0800, Train Acc: 0.9148, Val Acc: 0.9070
Epoch 20/30 Train Loss: 0.0698, Val Loss: 0.0849, Train Acc: 0.9156, Val Acc: 0.9077
Epoch 21/30 Train Loss: 0.0671, Val Loss: 0.0905, Train Acc: 0.9172, Val Acc: 0.9080
Epoch 22/30 Train Loss: 0.0622, Val Loss: 0.0879, Train Acc: 0.9175, Val Acc: 0.9079
Epoch 23/30 Train Loss: 0.0592, Val Loss: 0.0877, Train Acc: 0.9173, Val Acc: 0.9082
Epoch 24/30 Train Loss: 0.0583, Val Loss: 0.0826, Train Acc: 0.9177, Val Acc: 0.9087
Epoch 25/30 Train Loss: 0.0609, Val Loss: 0.0799, Train Acc: 0.9180, Val Acc: 0.9110
Epoch 26/30 Train Loss: 0.0608, Val Loss: 0.0775, Train Acc: 0.9189, Val Acc: 0.9111
Epoch 27/30 Train Loss: 0.0584, Val Loss: 0.0800, Train Acc: 0.9190, Val Acc: 0.9130
Epoch 28/30 Train Loss: 0.0599, Val Loss: 0.0797, Train Acc: 0.9186, Val Acc: 0.9122
Epoch 29/30 Train Loss: 0.0589, Val Loss: 0.0819, Train Acc: 0.9182, Val Acc: 0.9127
Epoch 30/30 Train Loss: 0.0576, Val Loss: 0.0821, Train Acc: 0.9185, Val Acc: 0.9134
Test accuracy: 0.9178

Training and Validation Loss