

Neural Net Digit Recognition

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b.) Programing Language Used: Guess... (its Python)

c.) The smaller step would give a better result, though we initially used too small of a step that resulted in a 0 matrix for our weight gradiants. We ended up using a step of 0.01.

d.) Below.

e.) In addition to $S2 = 30$, iterations=1000, we tried $S2 = \{10, 100, 300\}$ iterations = 500

f.) Our best accuracy was as $S2 = 100$. We stopped 300 in the middle as after calculating times, it would have taken a week to finish. We believe larger number of nodes or more iterations would increase accuracy.

```
In [27]: import numpy as np
import math
import os
import gzip
from mnist import MNIST
import random
import matplotlib.pyplot as plt
import sys
import time
```

```
In [34]: # Step 1: Sigmoid

# Sigmoid function for single value
def sigmoid_base(x):
    try:
        return 1 / (1 + math.exp(-x))
    except OverflowError as error:
        return 1

# Sigmoid function for a matrix
def sigmoid(X):
    result = np.matrix(X)
    row = np.size(X[0])
    for i in range(row):
        for j in range(int(np.size(X) / row)):
            result[j,i] = sigmoid_base(X[j,i])
        pass
    pass
    return result

# Sigmoid prime function for a matrix
def sigmoidPrime(zk):
    ak = sigmoid(zk)
    return np.multiply(ak, 1 - ak)
```

```
In [3]: # Create the Y label, ex, label=2 = [0, 1, 0, ..., 0], (1x10)
# index 0 represents 1, index 9 represents 0
def CreateLabelMatrix(label):
    index = label - 1
    if(index == -1):
        index = 9
    pass
    result = np.zeros((10,))
    result[index] = 1
    return result
```

```

In [38]: class NeuralNetwork:
    # input D: DataSet(All images)
    # input L: LabelSet(All labels)
    # input S2: number of nodes in hidden layer
    def __init__(self, D, L, S2, iterations = 10000, debugMode = False):
        self.D = D
        self.L = L
        self.S2 = S2

        # Random epsilon
        epsilon = 0.1

        # Step 2. Initialize W1 and W2 with proper dimensions
        self.W1 = np.random.random((S2, 784 + 1)) * 2 * epsilon - epsilon
        self.W2 = np.random.random((10, S2 + 1)) * 2 * epsilon - epsilon

        tolerance = 0.0000001
        self.toleranceArray1 = np.full(self.W1.shape, tolerance)
        self.toleranceArray2 = np.full(self.W2.shape, tolerance)

        self.debugMode = debugMode

        self.iterations = iterations
        pass

    # Step 5:
    def GradientDescent(self):
        # b.) Choose step
        step = 0.01

        # c.) Update rule: for k=1,2
        #  $W_{k,t+1} = W_{k,t} - step * gradW_{k,t}$ 

        print("StartTime : ",end="")
        startTime = time.time()
        print(startTime)
        for i in range(self.iterations):
            print("iter:", i, end='\r')

            self.gradW1 = np.zeros((self.S2, 784 + 1))
            self.gradW2 = np.zeros((10, self.S2 + 1))

            # a.) Weights initialized
            self.feedforward_backprop() # FOREVER

            # use logistic regression
            W1_n = self.W1 - np.multiply(step, self.gradW1)
            W2_n = self.W2 - np.multiply(step, self.gradW2)

            if ( (abs(self.W1 - W1_n) < self.toleranceArray1).all() \
                and (abs(self.W2 - W2_n) < self.toleranceArray2).all()):
                if(self.debugMode):
                    print("Tolerance won. Iteration count:", i)
                self.W1 = W1_n
                self.W2 = W2_n
                break

```

```

    # check for iteration
    if i == (self.iterations - 1):
        if(self.debugMode):
            print("Iteration won")
        self.W1 = W1_n
        self.W2 = W2_n
        break

    self.W1 = W1_n
    self.W2 = W2_n
    pass

endTime = time.time()
print("Total Elapsed Time: ", endTime - startTime)
print("DONE!")
pass

# Step 3: For each Datapoint in D:
def feedforward_backprop(self):

    # For each datapoint, feed forward and back propagate
    for i in range(len(self.D)):
        # initialize x and y for use
        self.x = self.D[i]

        # TODO: RESET THIS
        self.y = CreateLabelMatrix(self.L[i]).reshape(-1,1)
        #self.y = self.L[i]

        self.feedforward()
        self.backprop()
        pass

    # Average the gradients
    self.gradW1 = self.gradW1 / len(self.D)
    self.gradW2 = self.gradW2 / len(self.D)
    pass

def feedforward(self):
    # a.) Let a1 = [1, X] (with bias term)
    self.a1 = np.column_stack((1,np.matrix(self.x))).reshape(-1,1)

    # b.) Let z2 = W1*a1 (dim 52x1)
    self.z2 = (self.W1*self.a1)

    # c.) Let a2 = sigmoid(z2), and add bias term
    self.a2 = np.row_stack((1,sigmoid(self.z2)))

    # d.) Let z3 = W2*a2 (dim 10x1)
    self.z3 = self.W2*self.a2

    # e.) Let a3 = sigmoid(z3)
    self.a3 = sigmoid(self.z3)

    if self.debugMode:
        print("-----FF-----")

```

```

        print("a2:\n", self.a2)
        print("a1:\n", self.a1)
        print("z2:\n", self.z2)
        print("z3:\n", self.z3)
        print("a3:\n", self.a3)
        pass

    pass

def backprop(self):
    # a.) Let d3 = a3 - y (dim 10x1)
    d3 = self.a3 - self.y

    # b.1) Let W~2 be W2 with bias term removed, (dim 10xS2)
    W_t2 = np.delete(self.W2, 0, axis=1)

    # b.2) Let d2 = [W~2].T * d3 (x) sigmoid_prime(z2), (dim S2x1)
    d2 = np.multiply(W_t2.T * d3, sigmoidPrime(self.z2))

    # c.) Compute set of partial derivatives wrt. the weights, k=1,2
    #     gw1(x,y) = d2[a1].T --> size S2x785
    #     gw2(x,y) = d3[a2].T --> size 10x(S2+1)
    gw1 = d2 * self.a1.T
    gw2 = d3 * self.a2.T

    self.gradW1 = self.gradW1 + gw1
    self.gradW2 = self.gradW2 + gw2

    if self.debugMode:
        print("-----BP-----")
        print("d3\n", d3)
        print("W_t2\n", W_t2)
        print("d2\n", d2)
        print("gw1\n", gw1)
        print("gw2\n", gw2)
        pass

    pass

def predictSingle(self, x):
    a1 = np.matrix(x)
    a1 = np.column_stack((1,a1)).reshape(-1,1)

    z2 = (self.W1*a1)
    a2 = np.row_stack((1,sigmoid(z2)))

    z3 = self.W2*a2
    a3 = sigmoid(z3)

    result = np.argmax(a3) + 1
    if(result == 10):
        result = 0
    pass

    return result

```

```

def predictData(self, D2, L2):
    numberArray = [0, 0, 0, 0, 0, 0, 0, 0, 0, 0]
    numberArrayPred = [0, 0, 0, 0, 0, 0, 0, 0, 0, 0]
    correct = 0
    for i in range(len(D2)):
        predicted = self.predictSingle(D2[i])
        numberArray[L2[i]] += 1
        if predicted == L2[i]:
            correct += 1
            numberArrayPred[predicted] += 1
        pass
    pass
    print("Correct:", correct, " Total:", len(L2))
    print("Accuracy:", correct / len(L2) * 100, "%")

    print("Number, PredictedRight, Total")
    for i in range(10):
        print(i, "      ", numberArrayPred[i], numberArray[i])
    pass

```

```

In [4]: # Load in the data using MNIST
mndata = MNIST('Data')
train_images, train_labels = mndata.load_training()
test_images, test_labels = mndata.load_testing()

```

```

In [41]: nn = NeuralNetwork(train_images, train_labels, 30, 1000)
print("NN Done!")
nn.GradientDescent()

```

```

NN Done!
StartTime : 1575619117.343763
Total Elapsed Time: 24742.66812801361
DONE!

```

```

In [42]: nn.predictData(test_images, test_labels)

```

```

Correct: 7415 Total: 10000
Accuracy: 74.15 %
Number, PredictedRight, Total
0      948 980
1      1115 1135
2      576 1032
3      838 1010
4      779 982
5      259 892
6      869 958
7      876 1028
8      490 974
9      665 1009

```

REPORT. D.)

```
In [45]: for i in range(len(nn.W1):  
         print(nn.W1[i])
```

[[0.08471124 -0.03778911 0.03962886 -0.07785324 0.05595806 -0.07601101
-0.01837129 -0.02050651 -0.03293702 -0.01157805 0.07105064 -0.04003524
0.06422594 0.00200721 -0.07465348 -0.01207115 -0.0916144 -0.0321818
0.08974248 -0.01588315 0.0393009 0.02513707 -0.06817219 0.07635964
0.04154219 0.07953214 -0.015942 -0.0590928 0.09087402 -0.01776591
-0.02309188 -0.00616867 -0.0932188 0.03437961 -0.00502134 0.07855128
-0.06614072 0.03490345 0.00676843 -0.06942558 -0.07516761 0.01654759
-0.06074314 0.05577674 0.07707575 -0.04971067 0.00782625 0.00431773
0.09698669 -0.09285223 -0.09669865 0.02983906 -0.03673362 -0.07436253
-0.07667918 0.03351828 -0.03978495 -0.04790534 -0.02764061 -0.04593596
0.09153991 -0.03824198 0.09300668 0.05566869 0.07179774 -0.0319247
0.04082472 0.01420448 -0.01478949 -0.0289267 0.04206739 0.00870245
-0.08478453 -0.0619934 -0.03562008 -0.01178287 0.01249711 -0.05798242
-0.0959327 -0.05465123 -0.05110957 0.02233884 -0.00638087 0.04272017
0.05609153 0.0634558 -0.07859868 0.08615824 -0.09574963 0.00043085
-0.07579601 0.05532873 0.04887314 0.09076708 -0.07474205 -0.020006
-0.02826894 -0.02478541 -0.04434354 -0.09299731 -0.01263203 -0.09218736
0.00749304 0.04798701 0.08533824 0.09144905 -0.01877875 0.09585781
-0.09865208 -0.03182838 0.08065545 0.0981571 0.0471009 -0.03540883
0.05042467 0.04500752 -0.0690186 0.01762385 -0.08135363 0.0319205
-0.03669902 -0.015798 0.07153071 0.00022218 0.05317537 0.0509905
0.08469083 0.09272514 0.02662645 -0.02371249 0.01248266 0.06013805
0.07922799 -0.08800865 0.08792133 -0.04998488 -0.00982309 0.01360887
0.06829524 -0.02462303 -0.07738683 -0.03244169 -0.02429862 -0.0806188
-0.06208918 0.05894587 -0.0904255 0.08068232 -0.04733658 0.04012559
0.05285992 0.06446573 0.05616973 -0.0151831 0.02502214 0.0096204
0.01331754 -0.09335809 0.07004211 0.00609857 0.08149804 0.02254316
0.05460061 0.01064625 -0.05444745 0.06100653 -0.05371723 -0.01553074
0.03654749 0.0704713 0.08744495 0.06788009 0.07094978 0.08386286
-0.02152591 0.0222369 -0.02642845 0.00220949 -0.062199 0.04161076
-0.01248451 -0.02110855 0.01525383 0.00691682 -0.04767218 -0.04600598
0.03419969 -0.05535745 -0.06563917 0.07292723 -0.06758971 0.03877544
0.09194756 -0.06975907 0.02051134 0.07659467 0.05593408 0.0678193
0.09094743 -0.02025466 -0.0800922 -0.07385746 -0.06052471 -0.03768962
-0.05186515 0.00069386 -0.07906138 -0.06189516 -0.02033269 0.03046713
0.09303413 0.00707601 -0.09078257 -0.08191058 -0.04137578 -0.03581596
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-0.04596171 -0.0476672 -0.0151126 -0.04007114 -0.00603624 -0.09021106
-0.00751417 -0.07813346 0.05479257 0.05388689 -0.08298958 -0.09544798
0.025128 0.0686784 -0.06745193 -0.04211194 0.00431313 0.09167393
-0.00453488 0.03385302 -0.01494288 -0.00495476 0.05170445 -0.07369669
0.04747739 0.06737694 0.07517735 0.01824924 0.07686027 0.05760407
-0.01317503 -0.09153389 0.06737822 -0.07927972 0.08767552 -0.00120802
-0.05731967 -0.06596 0.04934124 0.06914952 0.06698552 0.08054147
-0.07478107 0.04541479 0.071697 0.06542021 -0.0828896 0.08852551
0.06267732 0.00044827 0.01755048 -0.03925905 -0.06661702 0.05641095
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-0.04173266 0.00602659 -0.01266351 -0.03419745 0.09186665 -0.0782062

0.0454601	0.049771	0.08789123	0.08855315	-0.08347043	0.07921738
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0.0386441	0.00949412	-0.02761168	0.01898863	0.01145421	-0.05356484
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0.05695495	0.03635506	0.00365166	-0.03705346	-0.04571689	-0.0397322
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0.05206116	0.0647902	0.04243694	0.07367125	0.01553941	0.09660097
0.05672247	0.06042585	-0.00309019	0.0969541	-0.06137129	0.0065088
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0.08115764	-0.02169022	0.08253072	-0.05477913	-0.05790668	-0.06133713
-0.00060082	0.01032512	0.02410224	-0.04987635	0.03336316	-0.07494508
0.07064169	0.00376459	-0.09222587	0.00893922	-0.02208351	0.06019072
-0.08374636	0.00261264	-0.06105581	0.10369783	-0.06234688	-0.06149768
0.01520086	0.04384443	-0.03990591	0.08627702	0.01908275	0.07322284
0.08996762	0.03164977	-0.08914369	0.06102822	-0.091742	0.0347175
-0.04723252	-0.07627654	-0.00650115	0.00157451	-0.02257662	0.07398645
0.09584865	0.0089655	0.0634284	0.06126364	-0.02158464	0.06854677
0.05822779	0.00242715	0.04934924	-0.09572301	-0.06488537	0.00222885
-0.08828086	-0.02794215	0.08152488	-0.06678948	0.03970239	-0.06484041
0.06526487	-0.02328518	0.05925925	-0.06234785	-0.04905688	0.02079816
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0.04393207	-0.07248848	0.03227177	0.08531572	-0.07437088	-0.00810311
0.06592179	-0.09060646	-0.01611938	-0.08355086	0.02459233	0.04626915
0.06421877	-0.08814827	0.05432383	-0.0127973	0.07350261	0.03402967
0.09449453	0.03415485	-0.06317342	0.08681128	-0.05424398	0.08520572
-0.05735312	0.08229197	0.03367722	0.05228669	-0.06478786	-0.06572019
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0.00749906	-0.04959668	-0.01853087	0.00197759	0.0619726	-0.0192959
0.00358113	0.03602254	-0.03119165	0.02881807	-0.02406942	-0.00702874
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-0.03016854	-0.08523725	0.07457362	0.00328381	0.07130332	0.01165195
-0.06430567	-0.02330723	0.07297473	0.03624497	-0.02805882	-0.092959
0.07732266	-0.08360882	-0.02345099	0.02778027	-0.06812402	-0.00699238
0.09216963	-0.07513229	0.00449681	0.07484205	-0.07164502	-0.03803467
-0.04780876	-0.06182498	-0.0245845	0.04272101	0.09029242	-0.03520334
-0.00141705	0.0488487	0.08432386	0.09632377	0.01179817	0.07305462
-0.00380385	-0.01407759	-0.04988128	0.03252356	-0.0394216	0.08848005
0.08136915	0.0739919	0.00496758	-0.08446985	-0.09292292	-0.09359036
0.08373291	-0.07064993	0.09486095	0.03047276	0.02660361	0.07999531
0.08588371	0.06689932	0.03316632	0.01912121	-0.0816952	0.07342082
0.03015456	0.04546628	0.04890625	0.03968387	0.02583445	-0.00980583
0.05053088	-0.05919943	0.04657688	-0.06666071	-0.03466293	0.04294952
0.07850276	0.04449836	-0.02255995	0.03302979	-0.00398143	0.03470213
-0.01707716	-0.02671848	0.09929215	-0.09486792	0.02793438	-0.06265114

```

-0.06949013 -0.01425076 0.07651522 0.04957213 0.07952143 -0.00717035
-0.02930909 0.01226144 -0.03537846 0.06544688 0.02060781 0.0170654
-0.04483995 -0.03611196 0.05504449 -0.08818955 0.02793098 -0.02583295
-0.00751436 -0.06424281 -0.02458288 -0.01648859 -0.07969398 -0.03721222
0.06214002 0.06588056 0.02792048 -0.07049542 -0.03045216 0.0335311
-0.10211128 -0.05379289 -0.01829455 0.059084 -0.02305677 0.04912943
-0.06264225 0.04444392 -0.07019651 0.01437144 0.05081653 -0.02253528
-0.02110655 0.01130594 -0.08335751 0.0490386 -0.08387149 0.06837209
0.0777412 -0.07917156 0.00587205 -0.05654034 -0.08390286 -0.05399948
0.02442036 -0.01939088 0.05611601 0.03635745 -0.09325856 -0.01349166
0.09008743 0.07959871 -0.06737834 0.02944261 -0.01386585 -0.09535109
-0.0981118 0.0376801 -0.0669003 0.0617507 0.02238383 0.01024044
0.0339505 -0.02539827 0.04924589 -0.05187141 0.04908146 0.03419731
-0.08445558 0.03331212 0.05116947 0.00337191 0.0909148 0.02438606
0.04171439 0.04286705 0.05576444 0.08089424 -0.0827465 -0.08539698
-0.06856829 0.01131523 -0.00036637 -0.06383284 0.02782487 0.03684639
0.08949667 -0.04193273 0.02486105 0.05206673 -0.09537942]]
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5.67142718e-02	-5.57382809e-02	1.13204090e-01	-7.99420980e-02
6.98240342e-02	-8.37797979e-02	-7.28756669e-02	-4.47422247e-02
-1.38980843e-02	8.45623607e-02	3.30233018e-02	3.38943580e-02
4.60829595e-02	6.42054512e-02	7.42116649e-02	-4.26076637e-02
-3.46760425e-03	-8.80716757e-02	8.12967537e-03	-6.98626737e-02
1.91654736e-02	9.01418333e-03	7.29982619e-02	5.50127364e-02
-4.43345604e-02	-4.50402081e-02	3.55128622e-02	-2.07147329e-02
2.40320390e-03	-4.50663932e-02	-3.68042471e-02	-4.07714839e-02
1.22414095e-02	9.87154017e-02	-7.47429342e-02	-1.34252871e-02
5.82195536e-02	-7.96487654e-02	-4.11387672e-02	-7.55574117e-02
4.58336744e-02	-5.91600635e-02	6.79242060e-02	3.36655297e-02
9.12627258e-02	4.72263110e-02	1.94577565e-02	-7.24155274e-02
7.02616321e-02	9.38892550e-03	-8.00343899e-02	3.59599041e-02
-2.67931375e-02	8.64786042e-02	-1.30438087e-02	9.15188210e-02
2.27695948e-02	-6.28603132e-02	-5.30862530e-02	-1.16599215e-02
-2.74552593e-02	5.40756351e-02	-4.86580686e-02	5.80114091e-02
-5.89943249e-02	2.76864296e-02	-1.77694129e-02	4.36272590e-02
-6.53157099e-02	-1.32460601e-02	9.82454290e-04	-4.56608392e-02
-2.07685427e-02	8.52703375e-02	-5.67094061e-02	5.70211035e-03
7.80760319e-02	-1.01368882e-01	1.57577693e-02	3.27330942e-02
-6.66165808e-03	-8.82117218e-02	6.07453406e-02	-5.18066074e-02
-5.83764105e-02	1.33051272e-02	-2.70711435e-02	-8.16598764e-02
-3.11577833e-02	-6.22524660e-02	8.34757825e-02	9.19820128e-02
7.39710303e-02	2.94589446e-02	-5.42347068e-02	-5.14065609e-02
-6.76049274e-02	2.27670017e-03	7.05638553e-02	8.27335164e-02
1.34099022e-02	-8.06224447e-02	8.48128683e-02	1.12822734e-02
7.72343194e-02	1.97369467e-02	-5.43188423e-02	8.05562501e-03
3.97994957e-02	-6.82901366e-02	-2.29315849e-02	-6.76486802e-02
-9.31143611e-02	5.43630249e-03	-8.30486608e-02	8.44841196e-02
9.52091359e-02	9.32898254e-02	2.63740990e-02	-9.09080569e-02
8.41547551e-02	-3.45165453e-02	5.71909875e-03	7.55486674e-02
-1.79737796e-02	6.12818588e-02	1.70203441e-02	-1.99830184e-02
5.32303455e-02	5.32414194e-02	-9.96342370e-02	6.73394536e-02

```
-6.44442775e-02 -2.80942431e-03 3.00749206e-02 -6.30294100e-02  
8.31203128e-03 6.64928564e-02 8.29170441e-02 3.39863804e-02  
-8.91011028e-02 -2.29706351e-02 -5.01599780e-02 -9.66480931e-02  
-9.46239185e-02 -4.62745096e-02 9.08302882e-02 8.69849489e-02  
2.40880711e-02 -6.72984092e-02 -3.38680654e-02 -4.63755476e-03  
9.89490198e-02]]
```

In [44]: nn.w2

```

Out[44]: matrix([[ -0.03937743, -0.1928585 ,  0.25624806, -0.2084142 , -0.16517158,
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-0.22170381, -0.34564841, -0.1047725 ,  0.07698454, -0.03709664,
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-0.35920268],
[ -0.15925343, -0.19182346, -0.18469562, -0.08781107, -0.16453273,
-0.04092323,  0.04926181, -0.16481952, -0.36736685, -0.16318477,
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-0.16336603, -0.34421247, -0.12543874, -0.00277288,  0.15609809,
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-0.04847804, -0.06806626,  0.2575761 , -0.06945812,  0.07390974,
-0.06083099,  0.18698896, -0.63127888, -0.18663726, -0.13369962,
-0.0691017 , -0.39558346, -0.04966596, -0.01397665, -0.42984393,
 0.00268716],
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-0.19175213,  0.1437037 , -0.50410566, -0.02476285, -0.036632 ,
-0.24528517, -0.07850511, -0.33212545, -0.09872331, -0.44465454,
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[ -0.06035415, -0.17407469,  0.2124726 , -0.22558083, -0.19534725,

```

```

-0.22920867, 0.0583178 , -0.03226403, -0.01224566, -0.15493123,
0.03606359, 0.15253479, -0.51358241, -0.11062362, -0.09207535,
0.1762357 , -0.11175706, 0.01629482, -0.12247979, -0.28043775,
-0.21682566, -0.22938611, 0.13470786, -0.09581652, -0.08779041,
-0.13153771, 0.13925351, -0.2106788 , 0.02219518, -0.26200729,
-0.35741534],
[-0.07125864, -0.03625668, -0.39051543, -0.16791268, -0.03492691,
-0.14993826, 0.23238909, -0.02503361, 0.03776065, -0.20116329,
-0.59550097, -0.28348235, 0.19027726, 0.13913793, -0.08853494,
-0.22800418, -0.14425919, 0.04530884, 0.51132407, -0.01688459,
-0.16087896, -0.17344584, 0.01440548, -0.1572013 , -0.08273713,
-0.60090766, -0.26926894, -0.10055839, -0.07718926, -0.27119729,
0.13453832]])

```

S2 = 100, iterations = 500

```

In [46]: nn2 = NeuralNetwork(train_images, train_labels, 100, 500)
print("NN Done!")
nn2.GradientDescent()

```

```

NN Done!
StartTime : 1575651473.4134407
Total Elapsed Time: 22776.92486190796
DONE!

```

```

In [47]: nn2.predictData(test_images, test_labels)

```

```

Correct: 8104 Total: 10000
Accuracy: 81.04 %
Number, PredictedRight, Total
0      934 980
1     1097 1135
2      793 1032
3      863 1010
4      814 982
5     470 892
6      855 958
7     906 1028
8     646 974
9     726 1009

```

```
In [6]: nn = NeuralNetwork(train_images, train_labels, 300, 500)
print("NN Done!")
nn.GradientDescent()
```

```
NN Done!
StartTime : 1575652042.3771405
iter: 32
```

```
-----
KeyboardInterrupt                                Traceback (most recent call last)
<ipython-input-6-ad24212b30bc> in <module>
      1 nn = NeuralNetwork(train_images, train_labels, 300, 500)
      2 print("NN Done!")
----> 3 nn.GradientDescent()

<ipython-input-4-ce8f0a19b0d2> in GradientDescent(self)
      42
      43         # a.) Weights initialized
----> 44         self.feedforward_backprop() # FOREVER
      45
      46         # use logistic regression

<ipython-input-4-ce8f0a19b0d2> in feedforward_backprop(self)
      85         #self.y = self.L[i]
      86
----> 87         self.feedforward()
      88         self.backprop()
      89         pass

<ipython-input-4-ce8f0a19b0d2> in feedforward(self)
      99
     100         # b.) Let z2 = W1*a1 (dim S2x1)
--> 101         self.z2 = (self.W1*self.a1)
     102
     103         # c.) Let a2 = sigmoid(z2), and add bias term

~\AppData\Roaming\Python\Python37\site-packages\numpy\matrixlib\defmatrix.py
in __mul__(self, other)
     218         if isinstance(other, (N.ndarray, list, tuple)) :
     219             # This promotes 1-D vectors to row vectors
--> 220             return N.dot(self, asmatrix(other))
     221         if isscalar(other) or not hasattr(other, '__rmul__') :
     222             return N.dot(self, other)

<__array_function__ internals> in dot(*args, **kwargs)

KeyboardInterrupt:
```



```
In [7]: nn.predictData(test_images, test_labels)
```

```
Correct: 4015 Total: 10000
Accuracy: 40.150000000000006 %
Number, PredictedRight, Total
0      569 980
1      917 1135
2      270 1032
3      501 1010
4      100 982
5      260 892
6      169 958
7      401 1028
8      347 974
9      481 1009
```

S2 = 10, iterations = 500

```
In [8]: nn2 = NeuralNetwork(train_images, train_labels, 10, 500)
print("NN Done!")
nn2.GradientDescent()
```

```
NN Done!
StartTime : 1575657818.9525685
Total Elapsed Time: 8435.950342178345
DONE!
```

```
In [9]: nn2.predictData(test_images, test_labels)
```

```
Correct: 2147 Total: 10000
Accuracy: 21.47 %
Number, PredictedRight, Total
0      220 980
1     1111 1135
2       0 1032
3      799 1010
4       0 982
5       0 892
6       0 958
7      17 1028
8       0 974
9       0 1009
```