~~~~~~~~~~~~~~~~~~~~~~~TestCarData~~~~~~~~~~~~~~~~~~~~~~~

------- # 0 neurons per hidden layer -------

Iteration # 1

Starting training at time 21:34:46.276000 with 21 inputs, 4 outputs, [0] hidden layers, size of training set 200, and size of test set 1528

Finished after 200 iterations at time 21:34:48.480000 with training error 0.061695 and weight change 0.004583

Feed Forward Test correctly classified 1078, incorrectly classified 450, test percent error 0.705497

Iteration # 2

Starting training at time 21:34:48.534000 with 21 inputs, 4 outputs, [0] hidden layers, size of training set 200, and size of test set 1528

Finished after 200 iterations at time 21:34:50.793000 with training error 0.061695 and weight change 0.004583

Feed Forward Test correctly classified 1078, incorrectly classified 450, test percent error 0.705497

Iteration # 3

Starting training at time 21:34:50.829000 with 21 inputs, 4 outputs, [0] hidden layers, size of training set 200, and size of test set 1528

Finished after 200 iterations at time 21:34:53.130000 with training error 0.061695 and weight change 0.004583

Feed Forward Test correctly classified 1078, incorrectly classified 450, test percent error 0.705497

Iteration # 4

Starting training at time 21:34:53.199000 with 21 inputs, 4 outputs, [0] hidden layers, size of training set 200, and size of test set 1528

Finished after 200 iterations at time 21:34:55.366000 with training error 0.061695 and weight change 0.004583

Feed Forward Test correctly classified 1078, incorrectly classified 450, test percent error 0.705497

Iteration # 5

Starting training at time 21:34:55.479000 with 21 inputs, 4 outputs, [0] hidden layers, size of training set 200, and size of test set 1528

Finished after 200 iterations at time 21:34:57.640000 with training error 0.061695 and weight change 0.004583

Feed Forward Test correctly classified 1078, incorrectly classified 450, test percent error 0.705497

Iteration result:

Accuracy standard deviation 0.0

Accuracy average: 0.705497382199

Max Accuracy: 0.705497382199

------- # 5 neurons per hidden layer -------

Iteration # 1

Starting training at time 21:34:57.861000 with 21 inputs, 4 outputs, [5] hidden layers, size of training set 200, and size of test set 1528

Finished after 200 iterations at time 21:35:14.606000 with training error 0.004174 and weight change 0.000227

Feed Forward Test correctly classified 1338, incorrectly classified 190, test percent error 0.875654

Iteration # 2

Starting training at time 21:35:14.882000 with 21 inputs, 4 outputs, [5] hidden layers, size of training set 200, and size of test set 1528

Finished after 200 iterations at time 21:35:31.666000 with training error 0.005915 and weight change 0.000247

Feed Forward Test correctly classified 1324, incorrectly classified 204, test percent error 0.866492

Iteration # 3

Starting training at time 21:35:31.913000 with 21 inputs, 4 outputs, [5] hidden layers, size of training set 200, and size of test set 1528

Finished after 200 iterations at time 21:35:51.065000 with training error 0.004718 and weight change 0.000230

Feed Forward Test correctly classified 1327, incorrectly classified 201, test percent error 0.868455

Iteration # 4

Starting training at time 21:35:51.422000 with 21 inputs, 4 outputs, [5] hidden layers, size of training set 200, and size of test set 1528

Finished after 200 iterations at time 21:36:09.916000 with training error 0.003786 and weight change 0.000191

Feed Forward Test correctly classified 1327, incorrectly classified 201, test percent error 0.868455

Iteration # 5

Starting training at time 21:36:10.216000 with 21 inputs, 4 outputs, [5] hidden layers, size of training set 200, and size of test set 1528

Finished after 200 iterations at time 21:36:29.200000 with training error 0.003641 and weight change 0.000191

Feed Forward Test correctly classified 1318, incorrectly classified 210, test percent error 0.862565

Iteration result:

Accuracy standard deviation 0.00424939347664

Accuracy average: 0.86832460733

Max Accuracy: 0.875654450262

------- # 10 neurons per hidden layer -------

Iteration # 1

Starting training at time 21:36:29.647000 with 21 inputs, 4 outputs, [10] hidden layers, size of training set 200, and size of test set 1528

Finished after 200 iterations at time 21:37:05.656000 with training error 0.002860 and weight change 0.000100

Feed Forward Test correctly classified 1325, incorrectly classified 203, test percent error 0.867147

Iteration # 2

Starting training at time 21:37:06.075000 with 21 inputs, 4 outputs, [10] hidden layers, size of training set 200, and size of test set 1528

Finished after 200 iterations at time 21:37:39.392000 with training error 0.003116 and weight change 0.000111

Feed Forward Test correctly classified 1333, incorrectly classified 195, test percent error 0.872382

Iteration # 3

Starting training at time 21:37:39.834000 with 21 inputs, 4 outputs, [10] hidden layers, size of training set 200, and size of test set 1528

Finished after 200 iterations at time 21:38:13.014000 with training error 0.003325 and weight change 0.000134

Feed Forward Test correctly classified 1337, incorrectly classified 191, test percent error 0.875000

Iteration # 4

Starting training at time 21:38:13.437000 with 21 inputs, 4 outputs, [10] hidden layers, size of training set 200, and size of test set 1528

Finished after 200 iterations at time 21:38:43.693000 with training error 0.003446 and weight change 0.000121

Feed Forward Test correctly classified 1337, incorrectly classified 191, test percent error 0.875000

Iteration # 5

Starting training at time 21:38:43.987000 with 21 inputs, 4 outputs, [10] hidden layers, size of training set 200, and size of test set 1528

Finished after 200 iterations at time 21:39:12.012000 with training error 0.003322 and weight change 0.000132

Feed Forward Test correctly classified 1338, incorrectly classified 190, test percent error 0.875654

Iteration result:

Accuracy standard deviation 0.00315224988974

Accuracy average: 0.873036649215

Max Accuracy: 0.875654450262

------- # 15 neurons per hidden layer -------

Iteration # 1

Starting training at time 21:39:12.544000 with 21 inputs, 4 outputs, [15] hidden layers, size of training set 200, and size of test set 1528

Finished after 200 iterations at time 21:39:55.460000 with training error 0.002718 and weight change 0.000086

Feed Forward Test correctly classified 1341, incorrectly classified 187, test percent error 0.877618

Iteration # 2

Starting training at time 21:39:55.911000 with 21 inputs, 4 outputs, [15] hidden layers, size of training set 200, and size of test set 1528

Finished after 200 iterations at time 21:40:39.129000 with training error 0.003063 and weight change 0.000097

Feed Forward Test correctly classified 1328, incorrectly classified 200, test percent error 0.869110

Iteration # 3

Starting training at time 21:40:39.567000 with 21 inputs, 4 outputs, [15] hidden layers, size of training set 200, and size of test set 1528

Finished after 200 iterations at time 21:41:18.382000 with training error 0.002730 and weight change 0.000088

Feed Forward Test correctly classified 1317, incorrectly classified 211, test percent error 0.861911

Iteration # 4

Starting training at time 21:41:18.835000 with 21 inputs, 4 outputs, [15] hidden layers, size of training set 200, and size of test set 1528

Finished after 200 iterations at time 21:41:59.240000 with training error 0.002914 and weight change 0.000114

Feed Forward Test correctly classified 1339, incorrectly classified 189, test percent error 0.876309

Iteration # 5

Starting training at time 21:41:59.646000 with 21 inputs, 4 outputs, [15] hidden layers, size of training set 200, and size of test set 1528

Finished after 200 iterations at time 21:42:37.908000 with training error 0.002877 and weight change 0.000097

Feed Forward Test correctly classified 1347, incorrectly classified 181, test percent error 0.881545

Iteration result:

Accuracy standard deviation 0.0069704329611

Accuracy average: 0.873298429319

Max Accuracy: 0.881544502618

------- # 20 neurons per hidden layer -------

Iteration # 1

Starting training at time 21:42:38.389000 with 21 inputs, 4 outputs, [20] hidden layers, size of training set 200, and size of test set 1528

Finished after 200 iterations at time 21:43:28.335000 with training error 0.002870 and weight change 0.000083

Feed Forward Test correctly classified 1334, incorrectly classified 194, test percent error 0.873037

Iteration # 2

Starting training at time 21:43:28.779000 with 21 inputs, 4 outputs, [20] hidden layers, size of training set 200, and size of test set 1528

Finished after 200 iterations at time 21:44:18.130000 with training error 0.002835 and weight change 0.000081

Feed Forward Test correctly classified 1327, incorrectly classified 201, test percent error 0.868455

Iteration # 3

Starting training at time 21:44:18.678000 with 21 inputs, 4 outputs, [20] hidden layers, size of training set 200, and size of test set 1528

Finished after 197 iterations at time 21:45:06.428000 with training error 0.002583 and weight change 0.000080

Feed Forward Test correctly classified 1329, incorrectly classified 199, test percent error 0.869764

Iteration # 4

Starting training at time 21:45:06.989000 with 21 inputs, 4 outputs, [20] hidden layers, size of training set 200, and size of test set 1528

Finished after 190 iterations at time 21:45:54.322000 with training error 0.002767 and weight change 0.000080

Feed Forward Test correctly classified 1343, incorrectly classified 185, test percent error 0.878927

Iteration # 5

Starting training at time 21:45:54.986000 with 21 inputs, 4 outputs, [20] hidden layers, size of training set 200, and size of test set 1528

Finished after 196 iterations at time 21:46:44.668000 with training error 0.002709 and weight change 0.000080

Feed Forward Test correctly classified 1319, incorrectly classified 209, test percent error 0.863220

Iteration result:

Accuracy standard deviation 0.00519618671238

Accuracy average: 0.870680628272

Max Accuracy: 0.878926701571

------- # 25 neurons per hidden layer -------

Iteration # 1

Starting training at time 21:46:45.377000 with 21 inputs, 4 outputs, [25] hidden layers, size of training set 200, and size of test set 1528

Finished after 190 iterations at time 21:47:44.948000 with training error 0.002546 and weight change 0.000080

Feed Forward Test correctly classified 1324, incorrectly classified 204, test percent error 0.866492

Iteration # 2

Starting training at time 21:47:45.645000 with 21 inputs, 4 outputs, [25] hidden layers, size of training set 200, and size of test set 1528

Finished after 185 iterations at time 21:48:44.134000 with training error 0.002976 and weight change 0.000080

Feed Forward Test correctly classified 1345, incorrectly classified 183, test percent error 0.880236

Iteration # 3

Starting training at time 21:48:44.696000 with 21 inputs, 4 outputs, [25] hidden layers, size of training set 200, and size of test set 1528

Finished after 179 iterations at time 21:49:40.676000 with training error 0.002932 and weight change 0.000080

Feed Forward Test correctly classified 1334, incorrectly classified 194, test percent error 0.873037

Iteration # 4

Starting training at time 21:49:41.431000 with 21 inputs, 4 outputs, [25] hidden layers, size of training set 200, and size of test set 1528

Finished after 180 iterations at time 21:50:38.727000 with training error 0.002531 and weight change 0.000079

Feed Forward Test correctly classified 1328, incorrectly classified 200, test percent error 0.869110

Iteration # 5

Starting training at time 21:50:39.379000 with 21 inputs, 4 outputs, [25] hidden layers, size of training set 200, and size of test set 1528

Finished after 185 iterations at time 21:51:39.451000 with training error 0.002555 and weight change 0.000080

Feed Forward Test correctly classified 1354, incorrectly classified 174, test percent error 0.886126

Iteration result:

Accuracy standard deviation 0.00724047994028

Accuracy average: 0.875

Max Accuracy: 0.88612565445

------- # 30 neurons per hidden layer -------

Iteration # 1

Starting training at time 21:51:40.179000 with 21 inputs, 4 outputs, [30] hidden layers, size of training set 200, and size of test set 1528

Finished after 172 iterations at time 21:53:40.857000 with training error 0.003041 and weight change 0.000079

Feed Forward Test correctly classified 1347, incorrectly classified 181, test percent error 0.881545

Iteration # 2

Starting training at time 21:53:42.439000 with 21 inputs, 4 outputs, [30] hidden layers, size of training set 200, and size of test set 1528

Finished after 170 iterations at time 21:55:31.784000 with training error 0.002906 and weight change 0.000079

Feed Forward Test correctly classified 1325, incorrectly classified 203, test percent error 0.867147

Iteration # 3

Starting training at time 21:55:32.637000 with 21 inputs, 4 outputs, [30] hidden layers, size of training set 200, and size of test set 1528

Finished after 163 iterations at time 21:56:31.183000 with training error 0.003261 and weight change 0.000079

Feed Forward Test correctly classified 1325, incorrectly classified 203, test percent error 0.867147

Iteration # 4

Starting training at time 21:56:31.916000 with 21 inputs, 4 outputs, [30] hidden layers, size of training set 200, and size of test set 1528

Finished after 198 iterations at time 21:57:47.442000 with training error 0.002656 and weight change 0.000080

Feed Forward Test correctly classified 1303, incorrectly classified 225, test percent error 0.852749

Iteration # 5

Starting training at time 21:57:48.231000 with 21 inputs, 4 outputs, [30] hidden layers, size of training set 200, and size of test set 1528

Finished after 180 iterations at time 21:58:51.058000 with training error 0.003018 and weight change 0.000079

Feed Forward Test correctly classified 1320, incorrectly classified 208, test percent error 0.863874

Iteration result:

Accuracy standard deviation 0.00919962481194

Accuracy average: 0.866492146597

Max Accuracy: 0.881544502618

------- # 35 neurons per hidden layer -------

Iteration # 1

Starting training at time 21:58:51.810000 with 21 inputs, 4 outputs, [35] hidden layers, size of training set 200, and size of test set 1528

Finished after 162 iterations at time 21:59:58.897000 with training error 0.003020 and weight change 0.000079

Feed Forward Test correctly classified 1289, incorrectly classified 239, test percent error 0.843586

Iteration # 2

Starting training at time 21:59:59.651000 with 21 inputs, 4 outputs, [35] hidden layers, size of training set 200, and size of test set 1528

Finished after 164 iterations at time 22:01:05.027000 with training error 0.002533 and weight change 0.000079

Feed Forward Test correctly classified 1336, incorrectly classified 192, test percent error 0.874346

Iteration # 3

Starting training at time 22:01:05.836000 with 21 inputs, 4 outputs, [35] hidden layers, size of training set 200, and size of test set 1528

Finished after 167 iterations at time 22:02:16.248000 with training error 0.003309 and weight change 0.000080

Feed Forward Test correctly classified 1331, incorrectly classified 197, test percent error 0.871073

Iteration # 4

Starting training at time 22:02:17.033000 with 21 inputs, 4 outputs, [35] hidden layers, size of training set 200, and size of test set 1528

Finished after 158 iterations at time 22:03:25.280000 with training error 0.003137 and weight change 0.000080

Feed Forward Test correctly classified 1335, incorrectly classified 193, test percent error 0.873691

Iteration # 5

Starting training at time 22:03:26.040000 with 21 inputs, 4 outputs, [35] hidden layers, size of training set 200, and size of test set 1528

Finished after 165 iterations at time 22:04:38.330000 with training error 0.003363 and weight change 0.000080

Feed Forward Test correctly classified 1323, incorrectly classified 205, test percent error 0.865838

Iteration result:

Accuracy standard deviation 0.0114586746745

Accuracy average: 0.865706806283

Max Accuracy: 0.874345549738

------- # 40 neurons per hidden layer -------

Iteration # 1

Starting training at time 22:04:39.216000 with 21 inputs, 4 outputs, [40] hidden layers, size of training set 200, and size of test set 1528

Finished after 159 iterations at time 22:06:08.985000 with training error 0.003251 and weight change 0.000080

Feed Forward Test correctly classified 1329, incorrectly classified 199, test percent error 0.869764

Iteration # 2

Starting training at time 22:06:09.959000 with 21 inputs, 4 outputs, [40] hidden layers, size of training set 200, and size of test set 1528

Finished after 142 iterations at time 22:07:23.816000 with training error 0.003388 and weight change 0.000080

Feed Forward Test correctly classified 1316, incorrectly classified 212, test percent error 0.861257

Iteration # 3

Starting training at time 22:07:24.796000 with 21 inputs, 4 outputs, [40] hidden layers, size of training set 200, and size of test set 1528

Finished after 155 iterations at time 22:08:47.413000 with training error 0.002739 and weight change 0.000080

Feed Forward Test correctly classified 1317, incorrectly classified 211, test percent error 0.861911

Iteration # 4

Starting training at time 22:08:48.267000 with 21 inputs, 4 outputs, [40] hidden layers, size of training set 200, and size of test set 1528

Finished after 147 iterations at time 22:09:55.355000 with training error 0.002810 and weight change 0.000079

Feed Forward Test correctly classified 1326, incorrectly classified 202, test percent error 0.867801

Iteration # 5

Starting training at time 22:09:56.200000 with 21 inputs, 4 outputs, [40] hidden layers, size of training set 200, and size of test set 1528

Finished after 157 iterations at time 22:11:08.074000 with training error 0.002977 and weight change 0.000080

Feed Forward Test correctly classified 1311, incorrectly classified 217, test percent error 0.857984

Iteration result:

Accuracy standard deviation 0.00436866996552

Accuracy average: 0.863743455497

Max Accuracy: 0.869764397906