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1 /usr/local/bin/python3.7 /Users/metehangelgi/Desktop/
  summer19/engr350/proje/dataInput.py
2 Using TensorFlow backend.
3 ['.DS_Store', 'test', 'train']
4 WARNING: Logging before flag parsing goes to stderr.
5 W0726 17:06:56.516204 4556359104 deprecation_wrapper.py:119
  ] From /Library/Frameworks/Python.framework/Versions/3.7/
    lib/python3.7/site-packages/keras/backend/
      tensorflow_backend.py:74: The name tf.get_default_graph is
      deprecated. Please use tf.compat.v1.get_default_graph
      instead.
6
7 W0726 17:06:56.555061 4556359104 deprecation_wrapper.py:119
  ] From /Library/Frameworks/Python.framework/Versions/3.7/
    lib/python3.7/site-packages/keras/backend/
      tensorflow_backend.py:517: The name tf.placeholder is
      deprecated. Please use tf.compat.v1.placeholder instead.
8
9 W0726 17:06:56.568276 4556359104 deprecation_wrapper.py:119
  ] From /Library/Frameworks/Python.framework/Versions/3.7/
    lib/python3.7/site-packages/keras/backend/
      tensorflow_backend.py:4138: The name tf.random_uniform is
      deprecated. Please use tf.random.uniform instead.
10
11 W0726 17:06:56.599718 4556359104 deprecation_wrapper.py:119
  ] From /Library/Frameworks/Python.framework/Versions/3.7/
    lib/python3.7/site-packages/keras/backend/
      tensorflow_backend.py:3976: The name tf.nn.max_pool is
      deprecated. Please use tf.nn.max_pool2d instead.
12
13 W0726 17:06:56.601044 4556359104 deprecation_wrapper.py:119
  ] From /Library/Frameworks/Python.framework/Versions/3.7/
    lib/python3.7/site-packages/keras/backend/
      tensorflow_backend.py:133: The name tf.
      placeholder_with_default is deprecated. Please use tf.
      compat.v1.placeholder_with_default instead.
14
15 W0726 17:06:56.608338 4556359104 deprecation.py:506] From /
  Library/Frameworks/Python.framework/Versions/3.7/lib/
  python3.7/site-packages/keras/backend/tensorflow_backend.py
  :3445: calling dropout (from tensorflow.python.ops.nn_ops)
  with keep_prob is deprecated and will be removed in a
  future version.
16 Instructions for updating:
17 Please use `rate` instead of `keep_prob`. Rate should be
  set to `rate = 1 - keep_prob`.
18 W0726 17:06:56.821290 4556359104 deprecation_wrapper.py:119
  ] From /Library/Frameworks/Python.framework/Versions/3.7/
    lib/python3.7/site-packages/keras/optimizers.py:790: The
    name tf.train.Optimizer is deprecated. Please use tf.compat
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18 .v1.train.Optimizer instead.
19
20 W0726 17:06:56.842839 4556359104 deprecation_wrapper.py:119
    ] From /Library/Frameworks/Python.framework/Versions/3.7/
    lib/python3.7/site-packages/keras/backend/
    tensorflow_backend.py:3295: The name tf.log is deprecated.
    Please use tf.math.log instead.
21
22 Found 8144 images belonging to 196 classes.
23 Found 8041 images belonging to 196 classes.
24 W0726 17:06:57.729712 4556359104 deprecation.py:323] From /
    Library/Frameworks/Python.framework/Versions/3.7/lib/
    python3.7/site-packages/tensorflow/python/ops/math_grad.py:
    1250: add_dispatch_support.<locals>.wrapper (from
    tensorflow.python.ops.array_ops) is deprecated and will be
    removed in a future version.
25 Instructions for updating:
26 Use tf.where in 2.0, which has the same broadcast rule as
    np.where
27 Epoch 1/200
28 2019-07-26 17:06:58.968150: I tensorflow/core/platform/
    cpu_feature_guard.cc:142] Your CPU supports instructions
    that this TensorFlow binary was not compiled to use: AVX2
    FMA
29 100/100 [=====] - 105s 1s/step -
    loss: 5.2799 - acc: 0.0037 - val_loss: 5.2776 - val_acc: 0.
    0075
30 Epoch 2/200
31 100/100 [=====] - 94s 941ms/step
    - loss: 5.2790 - acc: 0.0062 - val_loss: 5.2774 - val_acc
    : 0.0094
32 Epoch 3/200
33 100/100 [=====] - 100s 1s/step -
    loss: 5.2778 - acc: 0.0084 - val_loss: 5.2758 - val_acc: 0.
    0112
34 Epoch 4/200
35 100/100 [=====] - 102s 1s/step -
    loss: 5.2666 - acc: 0.0106 - val_loss: 5.2537 - val_acc: 0.
    0112
36 Epoch 5/200
37 100/100 [=====] - 98s 979ms/step
    - loss: 5.2291 - acc: 0.0112 - val_loss: 5.2029 - val_acc
    : 0.0106
38 Epoch 6/200
39 100/100 [=====] - 92s 918ms/step
    - loss: 5.1840 - acc: 0.0103 - val_loss: 5.1534 - val_acc
    : 0.0140
40 Epoch 7/200
41 100/100 [=====] - 92s 924ms/step
    - loss: 5.1617 - acc: 0.0122 - val_loss: 5.1624 - val_acc
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41 : 0.0131
42 Epoch 8/200
43 100/100 [=====] - 113s 1s/step -
  loss: 5.1554 - acc: 0.0100 - val_loss: 5.1574 - val_acc: 0.
  0100
44 Epoch 9/200
45 100/100 [=====] - 169s 2s/step -
  loss: 5.1378 - acc: 0.0106 - val_loss: 5.1641 - val_acc: 0.
  0125
46 Epoch 10/200
47 100/100 [=====] - 168s 2s/step -
  loss: 5.1459 - acc: 0.0131 - val_loss: 5.1391 - val_acc: 0.
  0138
48 Epoch 11/200
49 100/100 [=====] - 169s 2s/step -
  loss: 5.1208 - acc: 0.0116 - val_loss: 5.1331 - val_acc: 0.
  0120
50 Epoch 12/200
51 100/100 [=====] - 98s 980ms/step
  - loss: 5.1192 - acc: 0.0131 - val_loss: 5.1653 - val_acc
  : 0.0144
52 Epoch 13/200
53 100/100 [=====] - 94s 939ms/step
  - loss: 5.1292 - acc: 0.0084 - val_loss: 5.1257 - val_acc
  : 0.0100
54 Epoch 14/200
55 100/100 [=====] - 94s 939ms/step
  - loss: 5.1237 - acc: 0.0112 - val_loss: 5.1346 - val_acc
  : 0.0100
56 Epoch 15/200
57 100/100 [=====] - 94s 945ms/step
  - loss: 5.1207 - acc: 0.0128 - val_loss: 5.1404 - val_acc
  : 0.0125
58 Epoch 16/200
59 100/100 [=====] - 128s 1s/step -
  loss: 5.1005 - acc: 0.0122 - val_loss: 5.1156 - val_acc: 0.
  0120
60 Epoch 17/200
61 100/100 [=====] - 170s 2s/step -
  loss: 5.0988 - acc: 0.0100 - val_loss: 5.1101 - val_acc: 0.
  0075
62 Epoch 18/200
63 100/100 [=====] - 170s 2s/step -
  loss: 5.1022 - acc: 0.0128 - val_loss: 5.1132 - val_acc: 0.
  0169
64 Epoch 19/200
65 100/100 [=====] - 171s 2s/step -
  loss: 5.0955 - acc: 0.0166 - val_loss: 5.1369 - val_acc: 0.
  0100
66 Epoch 20/200
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67 100/100 [=====] - 169s 2s/step -
    loss: 5.0852 - acc: 0.0103 - val_loss: 5.1121 - val_acc: 0
    .0125
68 Epoch 21/200
69 100/100 [=====] - 170s 2s/step -
    loss: 5.0787 - acc: 0.0112 - val_loss: 5.1002 - val_acc: 0
    .0209
70 Epoch 22/200
71 100/100 [=====] - 171s 2s/step -
    loss: 5.0592 - acc: 0.0153 - val_loss: 5.0968 - val_acc: 0
    .0200
72 Epoch 23/200
73 100/100 [=====] - 173s 2s/step -
    loss: 5.0567 - acc: 0.0147 - val_loss: 5.0898 - val_acc: 0
    .0200
74 Epoch 24/200
75 100/100 [=====] - 175s 2s/step -
    loss: 5.0442 - acc: 0.0153 - val_loss: 5.0875 - val_acc: 0
    .0181
76 Epoch 25/200
77 100/100 [=====] - 175s 2s/step -
    loss: 5.0341 - acc: 0.0216 - val_loss: 5.0682 - val_acc: 0
    .0150
78 Epoch 26/200
79 100/100 [=====] - 170s 2s/step -
    loss: 5.0252 - acc: 0.0194 - val_loss: 5.1018 - val_acc: 0
    .0146
80 Epoch 27/200
81 100/100 [=====] - 168s 2s/step -
    loss: 5.0252 - acc: 0.0147 - val_loss: 5.0604 - val_acc: 0
    .0238
82 Epoch 28/200
83 99/100 [=====>.] - ETA: 0s - loss
    : 5.0375 - acc: 0.0174
84 100/100 [=====] - 103s 1s/step -
    loss: 5.0375 - acc: 0.0172 - val_loss: 5.0587 - val_acc: 0
    .0219
85 Epoch 29/200
86 100/100 [=====] - 95s 952ms/step
    - loss: 5.0075 - acc: 0.0175 - val_loss: 5.0629 - val_acc
    : 0.0194
87 Epoch 30/200
88 100/100 [=====] - 94s 942ms/step
    - loss: 4.9988 - acc: 0.0169 - val_loss: 5.0408 - val_acc
    : 0.0200
89 Epoch 31/200
90 100/100 [=====] - 91s 912ms/step
    - loss: 4.9984 - acc: 0.0144 - val_loss: 5.0427 - val_acc
    : 0.0228
91 Epoch 32/200
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92 100/100 [=====] - 129s 1s/step -
    loss: 4.9951 - acc: 0.0203 - val_loss: 5.0351 - val_acc: 0
    .0194
93 Epoch 33/200
94 100/100 [=====] - 164s 2s/step -
    loss: 5.0024 - acc: 0.0209 - val_loss: 5.0689 - val_acc: 0
    .0194
95 Epoch 34/200
96 100/100 [=====] - 172s 2s/step -
    loss: 4.9685 - acc: 0.0178 - val_loss: 5.0443 - val_acc: 0
    .0200
97 Epoch 35/200
98 100/100 [=====] - 174s 2s/step -
    loss: 4.9641 - acc: 0.0187 - val_loss: 5.0416 - val_acc: 0
    .0187
99 Epoch 36/200
100 100/100 [=====] - 171s 2s/step -
    loss: 4.9889 - acc: 0.0184 - val_loss: 5.0401 - val_acc: 0
    .0216
101 Epoch 37/200
102 100/100 [=====] - 182s 2s/step -
    loss: 4.9418 - acc: 0.0209 - val_loss: 5.0437 - val_acc: 0
    .0225
103 Epoch 38/200
104 100/100 [=====] - 180s 2s/step -
    loss: 4.9423 - acc: 0.0191 - val_loss: 5.0394 - val_acc: 0
    .0138
105 Epoch 39/200
106 100/100 [=====] - 179s 2s/step -
    loss: 4.9154 - acc: 0.0234 - val_loss: 5.0560 - val_acc: 0
    .0144
107 Epoch 40/200
108 100/100 [=====] - 175s 2s/step -
    loss: 4.9250 - acc: 0.0213 - val_loss: 4.9706 - val_acc: 0
    .0181
109 Epoch 41/200
110 100/100 [=====] - 176s 2s/step -
    loss: 4.9234 - acc: 0.0216 - val_loss: 4.9875 - val_acc: 0
    .0260
111 Epoch 42/200
112 100/100 [=====] - 173s 2s/step -
    loss: 4.8889 - acc: 0.0250 - val_loss: 4.9872 - val_acc: 0
    .0225
113 Epoch 43/200
114 100/100 [=====] - 177s 2s/step -
    loss: 4.9080 - acc: 0.0216 - val_loss: 5.0416 - val_acc: 0
    .0213
115 Epoch 44/200
116 100/100 [=====] - 172s 2s/step -
    loss: 4.8651 - acc: 0.0291 - val_loss: 5.0063 - val_acc: 0
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116 .0288
117 Epoch 45/200
118 100/100 [=====] - 177s 2s/step -
    loss: 4.8855 - acc: 0.0278 - val_loss: 4.9929 - val_acc: 0
    .0325
119 Epoch 46/200
120 100/100 [=====] - 170s 2s/step -
    loss: 4.8734 - acc: 0.0338 - val_loss: 5.0037 - val_acc: 0
    .0241
121 Epoch 47/200
122 100/100 [=====] - 173s 2s/step -
    loss: 4.8297 - acc: 0.0350 - val_loss: 4.9970 - val_acc: 0
    .0288
123 Epoch 48/200
124 100/100 [=====] - 172s 2s/step -
    loss: 4.8378 - acc: 0.0328 - val_loss: 4.9727 - val_acc: 0
    .0300
125 Epoch 49/200
126 100/100 [=====] - 173s 2s/step -
    loss: 4.8410 - acc: 0.0288 - val_loss: 4.8957 - val_acc: 0
    .0244
127 Epoch 50/200
128 100/100 [=====] - 173s 2s/step -
    loss: 4.8127 - acc: 0.0338 - val_loss: 4.9840 - val_acc: 0
    .0256
129 Epoch 51/200
130 100/100 [=====] - 180s 2s/step -
    loss: 4.7913 - acc: 0.0425 - val_loss: 4.9473 - val_acc: 0
    .0254
131 Epoch 52/200
132 100/100 [=====] - 177s 2s/step -
    loss: 4.7602 - acc: 0.0322 - val_loss: 4.9361 - val_acc: 0
    .0306
133 Epoch 53/200
134 100/100 [=====] - 175s 2s/step -
    loss: 4.7661 - acc: 0.0366 - val_loss: 4.9174 - val_acc: 0
    .0238
135 Epoch 54/200
136 100/100 [=====] - 171s 2s/step -
    loss: 4.7536 - acc: 0.0366 - val_loss: 4.9118 - val_acc: 0
    .0331
137 Epoch 55/200
138 100/100 [=====] - 174s 2s/step -
    loss: 4.7320 - acc: 0.0375 - val_loss: 4.9462 - val_acc: 0
    .0250
139 Epoch 56/200
140 100/100 [=====] - 169s 2s/step -
    loss: 4.7378 - acc: 0.0403 - val_loss: 4.8634 - val_acc: 0
    .0361
141 Epoch 57/200
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142 100/100 [=====] - 176s 2s/step -
    loss: 4.7138 - acc: 0.0400 - val_loss: 4.9598 - val_acc: 0
    .0344
143 Epoch 58/200
144 100/100 [=====] - 171s 2s/step -
    loss: 4.7097 - acc: 0.0375 - val_loss: 4.8650 - val_acc: 0
    .0394
145 Epoch 59/200
146 100/100 [=====] - 173s 2s/step -
    loss: 4.7103 - acc: 0.0450 - val_loss: 4.9486 - val_acc: 0
    .0269
147 Epoch 60/200
148 100/100 [=====] - 119s 1s/step -
    loss: 4.6643 - acc: 0.0466 - val_loss: 4.9031 - val_acc: 0
    .0356
149 Epoch 61/200
150 100/100 [=====] - 92s 922ms/step -
    loss: 4.7129 - acc: 0.0384 - val_loss: 4.8946 - val_acc
    : 0.0412
151 Epoch 62/200
152 100/100 [=====] - 90s 897ms/step -
    loss: 4.6431 - acc: 0.0447 - val_loss: 4.9113 - val_acc
    : 0.0288
153 Epoch 63/200
154 100/100 [=====] - 101s 1s/step -
    loss: 4.6680 - acc: 0.0447 - val_loss: 4.8502 - val_acc: 0
    .0344
155 Epoch 64/200
156 100/100 [=====] - 105s 1s/step -
    loss: 4.6561 - acc: 0.0434 - val_loss: 4.8262 - val_acc: 0
    .0419
157 Epoch 65/200
158 100/100 [=====] - 2372s 24s/step -
    loss: 4.6298 - acc: 0.0466 - val_loss: 4.8498 - val_acc
    : 0.0356
159 Epoch 66/200
160 100/100 [=====] - 95s 953ms/step -
    loss: 4.6144 - acc: 0.0509 - val_loss: 4.8505 - val_acc
    : 0.0387
161 Epoch 67/200
162 100/100 [=====] - 103s 1s/step -
    loss: 4.6267 - acc: 0.0494 - val_loss: 4.8296 - val_acc: 0
    .0425
163 Epoch 68/200
164 100/100 [=====] - 112s 1s/step -
    loss: 4.5764 - acc: 0.0516 - val_loss: 4.9227 - val_acc: 0
    .0325
165 Epoch 69/200
166 100/100 [=====] - 137s 1s/step -
    loss: 4.6267 - acc: 0.0497 - val_loss: 4.8224 - val_acc: 0
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166 .0413
167 Epoch 70/200
168 100/100 [=====] - 155s 2s/step -
    loss: 4.5516 - acc: 0.0553 - val_loss: 4.8440 - val_acc: 0
    .0387
169 Epoch 71/200
170 100/100 [=====] - 165s 2s/step -
    loss: 4.5916 - acc: 0.0466 - val_loss: 4.8338 - val_acc: 0
    .0438
171 Epoch 72/200
172 100/100 [=====] - 172s 2s/step -
    loss: 4.5640 - acc: 0.0481 - val_loss: 4.8291 - val_acc: 0
    .0413
173 Epoch 73/200
174 100/100 [=====] - 181s 2s/step -
    loss: 4.5573 - acc: 0.0497 - val_loss: 4.8292 - val_acc: 0
    .0419
175 Epoch 74/200
176 100/100 [=====] - 182s 2s/step -
    loss: 4.5690 - acc: 0.0497 - val_loss: 4.7899 - val_acc: 0
    .0512
177 Epoch 75/200
178 100/100 [=====] - 182s 2s/step -
    loss: 4.5073 - acc: 0.0563 - val_loss: 4.8596 - val_acc: 0
    .0356
179 Epoch 76/200
180 100/100 [=====] - 190s 2s/step -
    loss: 4.5375 - acc: 0.0578 - val_loss: 4.8398 - val_acc: 0
    .0393
181 Epoch 77/200
182 100/100 [=====] - 193s 2s/step -
    loss: 4.5282 - acc: 0.0541 - val_loss: 4.8107 - val_acc: 0
    .0394
183 Epoch 78/200
184 100/100 [=====] - 198s 2s/step -
    loss: 4.4986 - acc: 0.0609 - val_loss: 4.8247 - val_acc: 0
    .0431
185 Epoch 79/200
186 100/100 [=====] - 197s 2s/step -
    loss: 4.5132 - acc: 0.0475 - val_loss: 4.8083 - val_acc: 0
    .0394
187 Epoch 80/200
188 100/100 [=====] - 200s 2s/step -
    loss: 4.4451 - acc: 0.0569 - val_loss: 4.8530 - val_acc: 0
    .0419
189 Epoch 81/200
190 100/100 [=====] - 200s 2s/step -
    loss: 4.4983 - acc: 0.0541 - val_loss: 4.8117 - val_acc: 0
    .0349
191 Epoch 82/200
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192 100/100 [=====] - 207s 2s/step -
    loss: 4.4705 - acc: 0.0584 - val_loss: 4.7708 - val_acc: 0
    .0406
193 Epoch 83/200
194 100/100 [=====] - 208s 2s/step -
    loss: 4.4501 - acc: 0.0597 - val_loss: 4.8166 - val_acc: 0
    .0450
195 Epoch 84/200
196 100/100 [=====] - 210s 2s/step -
    loss: 4.4203 - acc: 0.0656 - val_loss: 4.7138 - val_acc: 0
    .0550
197 Epoch 85/200
198 100/100 [=====] - 206s 2s/step -
    loss: 4.4534 - acc: 0.0625 - val_loss: 4.8284 - val_acc: 0
    .0519
199 Epoch 86/200
200 100/100 [=====] - 210s 2s/step -
    loss: 4.4238 - acc: 0.0566 - val_loss: 4.8350 - val_acc: 0
    .0425
201 Epoch 87/200
202 100/100 [=====] - 208s 2s/step -
    loss: 4.4395 - acc: 0.0634 - val_loss: 4.7242 - val_acc: 0
    .0525
203 Epoch 88/200
204 100/100 [=====] - 204s 2s/step -
    loss: 4.4121 - acc: 0.0659 - val_loss: 4.7936 - val_acc: 0
    .0362
205 Epoch 89/200
206 100/100 [=====] - 207s 2s/step -
    loss: 4.3991 - acc: 0.0609 - val_loss: 4.8108 - val_acc: 0
    .0425
207 Epoch 90/200
208 100/100 [=====] - 203s 2s/step -
    loss: 4.3935 - acc: 0.0641 - val_loss: 4.7952 - val_acc: 0
    .0512
209 Epoch 91/200
210 100/100 [=====] - 204s 2s/step -
    loss: 4.3981 - acc: 0.0700 - val_loss: 4.7432 - val_acc: 0
    .0425
211 Epoch 92/200
212 100/100 [=====] - 204s 2s/step -
    loss: 4.3824 - acc: 0.0653 - val_loss: 4.8066 - val_acc: 0
    .0469
213 Epoch 93/200
214 100/100 [=====] - 200s 2s/step -
    loss: 4.3511 - acc: 0.0753 - val_loss: 4.7767 - val_acc: 0
    .0413
215 Epoch 94/200
216 100/100 [=====] - 200s 2s/step -
    loss: 4.3798 - acc: 0.0619 - val_loss: 4.7681 - val_acc: 0
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216 .0581
217 Epoch 95/200
218 100/100 [=====] - 201s 2s/step -
  loss: 4.3233 - acc: 0.0719 - val_loss: 4.7384 - val_acc: 0
  .0556
219 Epoch 96/200
220 100/100 [=====] - 200s 2s/step -
  loss: 4.3470 - acc: 0.0659 - val_loss: 4.7903 - val_acc: 0
  .0431
221 Epoch 97/200
222 100/100 [=====] - 198s 2s/step -
  loss: 4.3263 - acc: 0.0713 - val_loss: 4.7209 - val_acc: 0
  .0419
223 Epoch 98/200
224 100/100 [=====] - 205s 2s/step -
  loss: 4.2842 - acc: 0.0778 - val_loss: 4.8132 - val_acc: 0
  .0469
225 Epoch 99/200
226 100/100 [=====] - 200s 2s/step -
  loss: 4.3262 - acc: 0.0719 - val_loss: 4.7108 - val_acc: 0
  .0537
227 Epoch 100/200
228 100/100 [=====] - 6578s 66s/step
  - loss: 4.3155 - acc: 0.0722 - val_loss: 4.7453 - val_acc
  : 0.0587
229 Epoch 101/200
230 100/100 [=====] - 99s 989ms/step
  - loss: 4.3072 - acc: 0.0706 - val_loss: 4.7422 - val_acc
  : 0.0659
231 Epoch 102/200
232 100/100 [=====] - 97s 966ms/step
  - loss: 4.2704 - acc: 0.0753 - val_loss: 4.7593 - val_acc
  : 0.0500
233 Epoch 103/200
234 100/100 [=====] - 95s 950ms/step
  - loss: 4.2702 - acc: 0.0753 - val_loss: 4.7420 - val_acc
  : 0.0481
235 Epoch 104/200
236 100/100 [=====] - 92s 917ms/step
  - loss: 4.2679 - acc: 0.0728 - val_loss: 4.7187 - val_acc
  : 0.0581
237 Epoch 105/200
238 100/100 [=====] - 100s 997ms/step
  - loss: 4.2490 - acc: 0.0756 - val_loss: 4.7856 - val_acc
  : 0.0469
239 Epoch 106/200
240 100/100 [=====] - 93s 929ms/step
  - loss: 4.2774 - acc: 0.0750 - val_loss: 4.7819 - val_acc
  : 0.0431
241 Epoch 107/200
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242 100/100 [=====] - 93s 935ms/step
    - loss: 4.2772 - acc: 0.0772 - val_loss: 4.7671 - val_acc
    : 0.0544
243 Epoch 108/200
244 100/100 [=====] - 93s 927ms/step
    - loss: 4.2294 - acc: 0.0797 - val_loss: 4.7235 - val_acc
    : 0.0481
245 Epoch 109/200
246 100/100 [=====] - 94s 944ms/step
    - loss: 4.2429 - acc: 0.0816 - val_loss: 4.8043 - val_acc
    : 0.0550
247 Epoch 110/200
248 100/100 [=====] - 96s 959ms/step
    - loss: 4.2321 - acc: 0.0753 - val_loss: 4.7852 - val_acc
    : 0.0556
249 Epoch 111/200
250 100/100 [=====] - 96s 963ms/step
    - loss: 4.2037 - acc: 0.0862 - val_loss: 4.7852 - val_acc
    : 0.0438
251 Epoch 112/200
252 100/100 [=====] - 94s 941ms/step
    - loss: 4.2523 - acc: 0.0731 - val_loss: 4.7292 - val_acc
    : 0.0444
253 Epoch 113/200
254 100/100 [=====] - 95s 946ms/step
    - loss: 4.1880 - acc: 0.0794 - val_loss: 4.7643 - val_acc
    : 0.0519
255 Epoch 114/200
256 100/100 [=====] - 92s 925ms/step
    - loss: 4.1971 - acc: 0.0750 - val_loss: 4.7723 - val_acc
    : 0.0519
257 Epoch 115/200
258 100/100 [=====] - 94s 944ms/step
    - loss: 4.1942 - acc: 0.0809 - val_loss: 4.8302 - val_acc
    : 0.0537
259 Epoch 116/200
260 100/100 [=====] - 95s 949ms/step
    - loss: 4.1742 - acc: 0.0841 - val_loss: 4.8526 - val_acc
    : 0.0514
261 Epoch 117/200
262 100/100 [=====] - 96s 962ms/step
    - loss: 4.2055 - acc: 0.0828 - val_loss: 4.7020 - val_acc
    : 0.0556
263 Epoch 118/200
264 100/100 [=====] - 93s 932ms/step
    - loss: 4.1099 - acc: 0.0916 - val_loss: 4.7873 - val_acc
    : 0.0525
265 Epoch 119/200
266 100/100 [=====] - 94s 937ms/step
    - loss: 4.1629 - acc: 0.0756 - val_loss: 4.8239 - val_acc
```

```
266 : 0.0456
267 Epoch 120/200
268 100/100 [=====] - 92s 923ms/step
    - loss: 4.1994 - acc: 0.0791 - val_loss: 4.8830 - val_acc
    : 0.0481
269 Epoch 121/200
270 99/100 [=====>.] - ETA: 0s - loss
    : 4.1319 - acc: 0.0862
271 100/100 [=====] - 95s 947ms/step
    - loss: 4.1317 - acc: 0.0859 - val_loss: 4.7879 - val_acc
    : 0.0520
272 Epoch 122/200
273 100/100 [=====] - 95s 948ms/step
    - loss: 4.1460 - acc: 0.0813 - val_loss: 4.7989 - val_acc
    : 0.0631
274 Epoch 123/200
275 100/100 [=====] - 92s 920ms/step
    - loss: 4.1555 - acc: 0.0809 - val_loss: 4.6873 - val_acc
    : 0.0469
276 Epoch 124/200
277 100/100 [=====] - 92s 921ms/step
    - loss: 4.1632 - acc: 0.0853 - val_loss: 4.7503 - val_acc
    : 0.0594
278 Epoch 125/200
279 100/100 [=====] - 122s 1s/step -
    loss: 4.1166 - acc: 0.0881 - val_loss: 4.6834 - val_acc: 0
    .0475
280 Epoch 126/200
281 100/100 [=====] - 166s 2s/step -
    loss: 4.0594 - acc: 0.0909 - val_loss: 4.8731 - val_acc: 0
    .0476
282 Epoch 127/200
283 100/100 [=====] - 100s 995ms/step
    - loss: 4.1537 - acc: 0.0856 - val_loss: 4.7100 - val_acc
    : 0.0544
284 Epoch 128/200
285 100/100 [=====] - 93s 929ms/step
    - loss: 4.0962 - acc: 0.0969 - val_loss: 4.8197 - val_acc
    : 0.0537
286 Epoch 129/200
287 100/100 [=====] - 94s 943ms/step
    - loss: 4.0853 - acc: 0.0975 - val_loss: 4.8011 - val_acc
    : 0.0544
288 Epoch 130/200
289 100/100 [=====] - 98s 976ms/step
    - loss: 4.1589 - acc: 0.0859 - val_loss: 4.8589 - val_acc
    : 0.0469
290 Epoch 131/200
291 100/100 [=====] - 95s 951ms/step
    - loss: 4.0242 - acc: 0.0972 - val_loss: 4.7723 - val_acc
```

```
291 : 0.0581
292 Epoch 132/200
293 100/100 [=====] - 93s 931ms/step
    - loss: 4.1090 - acc: 0.0925 - val_loss: 4.8122 - val_acc
    : 0.0558
294 Epoch 133/200
295 100/100 [=====] - 95s 953ms/step
    - loss: 4.0948 - acc: 0.0900 - val_loss: 4.8590 - val_acc
    : 0.0544
296 Epoch 134/200
297 100/100 [=====] - 103s 1s/step -
    loss: 4.0402 - acc: 0.0969 - val_loss: 4.8213 - val_acc: 0
    .0594
298 Epoch 135/200
299 100/100 [=====] - 105s 1s/step -
    loss: nan - acc: 0.0344 - val_loss: nan - val_acc: 0.0056
300 Epoch 136/200
301 100/100 [=====] - 106s 1s/step -
    loss: nan - acc: 0.0053 - val_loss: nan - val_acc: 0.0037
302 Epoch 137/200
303 99/100 [=====>.] - ETA: 0s - loss
    : nan - acc: 0.0044
304 100/100 [=====] - 105s 1s/step -
    loss: nan - acc: 0.0044 - val_loss: nan - val_acc: 0.0013
305 Epoch 138/200
306 100/100 [=====] - 93s 929ms/step
    - loss: nan - acc: 0.0069 - val_loss: nan - val_acc: 0.
    0075
307 Epoch 139/200
308 100/100 [=====] - 93s 931ms/step
    - loss: nan - acc: 0.0047 - val_loss: nan - val_acc: 0.
    0069
309 Epoch 140/200
310 100/100 [=====] - 94s 938ms/step
    - loss: nan - acc: 0.0053 - val_loss: nan - val_acc: 0.
    0037
311 Epoch 141/200
312 100/100 [=====] - 94s 943ms/step
    - loss: nan - acc: 0.0069 - val_loss: nan - val_acc: 0.
    0081
313 Epoch 142/200
314 100/100 [=====] - 128s 1s/step -
    loss: nan - acc: 0.0047 - val_loss: nan - val_acc: 0.0063
315 Epoch 143/200
316 100/100 [=====] - 95s 950ms/step
    - loss: nan - acc: 0.0050 - val_loss: nan - val_acc: 0.
    0037
317 Epoch 144/200
318 100/100 [=====] - 94s 943ms/step
    - loss: nan - acc: 0.0066 - val_loss: nan - val_acc: 0.
```

```
318 0031
319 Epoch 145/200
320 100/100 [=====] - 93s 928ms/step
    - loss: nan - acc: 0.0053 - val_loss: nan - val_acc: 0.
    0094
321 Epoch 146/200
322 100/100 [=====] - 94s 941ms/step
    - loss: nan - acc: 0.0047 - val_loss: nan - val_acc: 0.
    0050
323 Epoch 147/200
324 100/100 [=====] - 96s 956ms/step
    - loss: nan - acc: 0.0053 - val_loss: nan - val_acc: 0.
    0051
325 Epoch 148/200
326 100/100 [=====] - 94s 938ms/step
    - loss: nan - acc: 0.0056 - val_loss: nan - val_acc: 0.
    0056
327 Epoch 149/200
328 100/100 [=====] - 98s 983ms/step
    - loss: nan - acc: 0.0059 - val_loss: nan - val_acc: 0.
    0050
329 Epoch 150/200
330 100/100 [=====] - 107s 1s/step -
    loss: nan - acc: 0.0069 - val_loss: nan - val_acc: 0.0063
331 Epoch 151/200
332 100/100 [=====] - 101s 1s/step -
    loss: nan - acc: 0.0063 - val_loss: nan - val_acc: 0.0056
333 Epoch 152/200
334 100/100 [=====] - 91s 914ms/step
    - loss: nan - acc: 0.0050 - val_loss: nan - val_acc: 0.
    0063
335 Epoch 153/200
336 100/100 [=====] - 90s 900ms/step
    - loss: nan - acc: 0.0038 - val_loss: nan - val_acc: 0.
    0037
337 Epoch 154/200
338 100/100 [=====] - 94s 943ms/step
    - loss: nan - acc: 0.0066 - val_loss: nan - val_acc: 0.
    0031
339 Epoch 155/200
340 100/100 [=====] - 146s 1s/step -
    loss: nan - acc: 0.0053 - val_loss: nan - val_acc: 0.0069
341 Epoch 156/200
342 100/100 [=====] - 91s 914ms/step
    - loss: nan - acc: 0.0047 - val_loss: nan - val_acc: 0.
    0063
343 Epoch 157/200
344 100/100 [=====] - 98s 978ms/step
    - loss: nan - acc: 0.0059 - val_loss: nan - val_acc: 0.
    0076
```

```
345 Epoch 158/200
346 100/100 [=====] - 104s 1s/step -
  loss: nan - acc: 0.0050 - val_loss: nan - val_acc: 0.0044
347 Epoch 159/200
348 100/100 [=====] - 100s 1s/step -
  loss: nan - acc: 0.0053 - val_loss: nan - val_acc: 0.0037
349 Epoch 160/200
350 100/100 [=====] - 98s 984ms/step -
  loss: nan - acc: 0.0050 - val_loss: nan - val_acc: 0.
  0063
351 Epoch 161/200
352 100/100 [=====] - 102s 1s/step -
  loss: nan - acc: 0.0066 - val_loss: nan - val_acc: 0.0056
353 Epoch 162/200
354 100/100 [=====] - 98s 984ms/step -
  loss: nan - acc: 0.0053 - val_loss: nan - val_acc: 0.
  0082
355 Epoch 163/200
356 100/100 [=====] - 101s 1s/step -
  loss: nan - acc: 0.0053 - val_loss: nan - val_acc: 0.0069
357 Epoch 164/200
358 100/100 [=====] - 98s 983ms/step -
  loss: nan - acc: 0.0059 - val_loss: nan - val_acc: 0.
  0019
359 Epoch 165/200
360 100/100 [=====] - 99s 989ms/step -
  loss: nan - acc: 0.0059 - val_loss: nan - val_acc: 0.
  0056
361 Epoch 166/200
362 100/100 [=====] - 99s 991ms/step -
  loss: nan - acc: 0.0047 - val_loss: nan - val_acc: 0.
  0056
363 Epoch 167/200
364 100/100 [=====] - 110s 1s/step -
  loss: nan - acc: 0.0084 - val_loss: nan - val_acc: 0.0025
365 Epoch 168/200
366 100/100 [=====] - 101s 1s/step -
  loss: nan - acc: 0.0037 - val_loss: nan - val_acc: 0.0050
367 Epoch 169/200
368 100/100 [=====] - 99s 992ms/step -
  loss: nan - acc: 0.0053 - val_loss: nan - val_acc: 0.
  0056
369 Epoch 170/200
370 100/100 [=====] - 99s 990ms/step -
  loss: nan - acc: 0.0050 - val_loss: nan - val_acc: 0.
  0075
371 Epoch 171/200
372 100/100 [=====] - 99s 986ms/step -
  loss: nan - acc: 0.0063 - val_loss: nan - val_acc: 0.
  0063
```

```
373 Epoch 172/200
374 100/100 [=====] - 99s 986ms/step
    - loss: nan - acc: 0.0041 - val_loss: nan - val_acc: 0.
    0063
375 Epoch 173/200
376 100/100 [=====] - 100s 996ms/step
    - loss: nan - acc: 0.0066 - val_loss: nan - val_acc: 0.
    0031
377 Epoch 174/200
378 100/100 [=====] - 101s 1s/step -
    loss: nan - acc: 0.0047 - val_loss: nan - val_acc: 0.0037
379 Epoch 175/200
380 100/100 [=====] - 100s 1s/step -
    loss: nan - acc: 0.0062 - val_loss: nan - val_acc: 0.0075
381 Epoch 176/200
382 100/100 [=====] - 108s 1s/step -
    loss: nan - acc: 0.0053 - val_loss: nan - val_acc: 0.0050
383 Epoch 177/200
384 100/100 [=====] - 99s 992ms/step
    - loss: nan - acc: 0.0041 - val_loss: nan - val_acc: 0.
    0057
385 Epoch 178/200
386 100/100 [=====] - 102s 1s/step -
    loss: nan - acc: 0.0062 - val_loss: nan - val_acc: 0.0069
387 Epoch 179/200
388 100/100 [=====] - 98s 980ms/step
    - loss: nan - acc: 0.0056 - val_loss: nan - val_acc: 0.
    0050
389 Epoch 180/200
390 100/100 [=====] - 101s 1s/step -
    loss: nan - acc: 0.0062 - val_loss: nan - val_acc: 0.0050
391 Epoch 181/200
392 100/100 [=====] - 99s 993ms/step
    - loss: nan - acc: 0.0059 - val_loss: nan - val_acc: 0.
    0063
393 Epoch 182/200
394 100/100 [=====] - 101s 1s/step -
    loss: nan - acc: 0.0041 - val_loss: nan - val_acc: 0.0070
395 Epoch 183/200
396 100/100 [=====] - 100s 998ms/step
    - loss: nan - acc: 0.0075 - val_loss: nan - val_acc: 0.
    0063
397 Epoch 184/200
398 100/100 [=====] - 99s 990ms/step
    - loss: nan - acc: 0.0047 - val_loss: nan - val_acc: 0.
    0056
399 Epoch 185/200
400 100/100 [=====] - 99s 992ms/step
    - loss: nan - acc: 0.0050 - val_loss: nan - val_acc: 0.
    0050
```

```
401 Epoch 186/200
402 100/100 [=====] - 100s 998ms/step
    - loss: nan - acc: 0.0056 - val_loss: nan - val_acc: 0.
    0050
403 Epoch 187/200
404 100/100 [=====] - 102s 1s/step -
    loss: nan - acc: 0.0059 - val_loss: nan - val_acc: 0.0038
405 Epoch 188/200
406 100/100 [=====] - 105s 1s/step -
    loss: nan - acc: 0.0066 - val_loss: nan - val_acc: 0.0044
407 Epoch 189/200
408 100/100 [=====] - 113s 1s/step -
    loss: nan - acc: 0.0041 - val_loss: nan - val_acc: 0.0075
409 Epoch 190/200
410 100/100 [=====] - 102s 1s/step -
    loss: nan - acc: 0.0069 - val_loss: nan - val_acc: 0.0044
411 Epoch 191/200
412 100/100 [=====] - 98s 978ms/step
    - loss: nan - acc: 0.0059 - val_loss: nan - val_acc: 0.
    0063
413 Epoch 192/200
414 100/100 [=====] - 89s 892ms/step
    - loss: nan - acc: 0.0041 - val_loss: nan - val_acc: 0.
    0038
415 Epoch 193/200
416 100/100 [=====] - 91s 909ms/step
    - loss: nan - acc: 0.0059 - val_loss: nan - val_acc: 0.
    0075
417 Epoch 194/200
418 100/100 [=====] - 94s 945ms/step
    - loss: nan - acc: 0.0066 - val_loss: nan - val_acc: 0.
    0088
419 Epoch 195/200
420 100/100 [=====] - 100s 1s/step -
    loss: nan - acc: 0.0053 - val_loss: nan - val_acc: 0.0019
421 Epoch 196/200
422 100/100 [=====] - 101s 1s/step -
    loss: nan - acc: 0.0047 - val_loss: nan - val_acc: 0.0037
423 Epoch 197/200
424 100/100 [=====] - 99s 988ms/step
    - loss: nan - acc: 0.0063 - val_loss: nan - val_acc: 0.
    0051
425 Epoch 198/200
426 100/100 [=====] - 100s 999ms/step
    - loss: nan - acc: 0.0056 - val_loss: nan - val_acc: 0.
    0037
427 Epoch 199/200
428 100/100 [=====] - 100s 999ms/step
    - loss: nan - acc: 0.0050 - val_loss: nan - val_acc: 0.
    0037
```

File - dataInput

```
429 Epoch 200/200
430 100/100 [=====] - 105s 1s/step -
  loss: nan - acc: 0.0062 - val_loss: nan - val_acc: 0.0075
431
432 Process finished with exit code 0
433
```