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1 /usr/local/bin/python3.8 "/Users/surajvaddi/Desktop
/TarPrint Full Journey/Machine Learning Code/Neural
-Network-NO-test.py"
2 ['norm_imperVIOUS' 'tan_imperVIOUS' '
norm_imperVIOUS' ...]
3 ['norm_imperVIOUS' 'dry_pervious' 'norm_pervious']
4 [2 5 2 ... 2 0 3]
5 2020-09-03 18:22:56.878379: I tensorflow/core/
platform/cpu_feature_guard.cc:142] This TensorFlow
binary is optimized with oneAPI Deep Neural Network
Library (oneDNN)to use the following CPU
instructions in performance-critical operations:
AVX2 FMA
6 To enable them in other operations, rebuild
TensorFlow with the appropriate compiler flags.
7 2020-09-03 18:22:56.887961: I tensorflow/compiler/
xla/service/service.cc:168] XLA service
0x7fe9f33bc7c0 initialized for platform Host (this
does not guarantee that XLA will be used). Devices:
8 2020-09-03 18:22:56.887971: I tensorflow/compiler/
xla/service/service.cc:176] StreamExecutor device
(0): Host, Default Version
9 [[0.30362644 0.32236881 0.29612949 ... 0.37484746 0
.38234441 0.32236881]
10 [0.38498641 0.33609925 0.26582395 ... 0.35748738 0
.32998835 0.25665761]
11 [0.32926562 0.33627127 0.29774019 ... 0.37830518 0
.381808 0.31875714]
12 ...
13 [0.31306804 0.32338897 0.28554558 ... 0.40251605 0
.40595636 0.35435174]
14 [0.42824723 0.39255996 0.27955027 ... 0.26765452 0
.28549815 0.19925392]
15 [0.21592634 0.31118796 0.19052324 ... 0.38739725 0
.450905 0.28578486]]
16 (2138, 9)
17 (2138, 7)
18 Epoch 1/175
19 179/179 [=====] - 0s 592us
/step - loss: 1.5518 - accuracy: 0.3990
20 Epoch 2/175
21 179/179 [=====] - 0s 559us
/step - loss: 1.1190 - accuracy: 0.5477
22 Epoch 3/175

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23 179/179 [=====] - 0s 579us
  /step - loss: 0.8886 - accuracy: 0.6913
24 Epoch 4/175
25 179/179 [=====] - 0s 557us
  /step - loss: 0.7426 - accuracy: 0.7484
26 Epoch 5/175
27 179/179 [=====] - 0s 612us
  /step - loss: 0.6580 - accuracy: 0.7675
28 Epoch 6/175
29 179/179 [=====] - 0s 591us
  /step - loss: 0.6317 - accuracy: 0.7764
30 Epoch 7/175
31 179/179 [=====] - 0s 588us
  /step - loss: 0.6257 - accuracy: 0.7811
32 Epoch 8/175
33 179/179 [=====] - 0s 564us
  /step - loss: 0.6175 - accuracy: 0.7769
34 Epoch 9/175
35 179/179 [=====] - 0s 620us
  /step - loss: 0.5950 - accuracy: 0.7942
36 Epoch 10/175
37 179/179 [=====] - 0s 551us
  /step - loss: 0.5809 - accuracy: 0.7900
38 Epoch 11/175
39 179/179 [=====] - 0s 595us
  /step - loss: 0.5725 - accuracy: 0.7951
40 Epoch 12/175
41 179/179 [=====] - 0s 555us
  /step - loss: 0.5571 - accuracy: 0.8003
42 Epoch 13/175
43 179/179 [=====] - 0s 591us
  /step - loss: 0.5558 - accuracy: 0.8045
44 Epoch 14/175
45 179/179 [=====] - 0s 610us
  /step - loss: 0.5457 - accuracy: 0.8040
46 Epoch 15/175
47 179/179 [=====] - 0s 607us
  /step - loss: 0.5311 - accuracy: 0.8045
48 Epoch 16/175
49 179/179 [=====] - 0s 570us
  /step - loss: 0.5290 - accuracy: 0.8068
50 Epoch 17/175
51 179/179 [=====] - 0s 677us
  /step - loss: 0.5287 - accuracy: 0.8082
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52 Epoch 18/175
53 179/179 [=====] - 0s 688us
    /step - loss: 0.5211 - accuracy: 0.8129
54 Epoch 19/175
55 179/179 [=====] - 0s 571us
    /step - loss: 0.5126 - accuracy: 0.8171
56 Epoch 20/175
57 179/179 [=====] - 0s 575us
    /step - loss: 0.5138 - accuracy: 0.8171
58 Epoch 21/175
59 179/179 [=====] - 0s 572us
    /step - loss: 0.5100 - accuracy: 0.8167
60 Epoch 22/175
61 179/179 [=====] - 0s 557us
    /step - loss: 0.4940 - accuracy: 0.8209
62 Epoch 23/175
63 179/179 [=====] - 0s 609us
    /step - loss: 0.4924 - accuracy: 0.8269
64 Epoch 24/175
65 179/179 [=====] - 0s 558us
    /step - loss: 0.4800 - accuracy: 0.8265
66 Epoch 25/175
67 179/179 [=====] - 0s 586us
    /step - loss: 0.4762 - accuracy: 0.8307
68 Epoch 26/175
69 179/179 [=====] - 0s 595us
    /step - loss: 0.4974 - accuracy: 0.8274
70 Epoch 27/175
71 179/179 [=====] - 0s 581us
    /step - loss: 0.4711 - accuracy: 0.8312
72 Epoch 28/175
73 179/179 [=====] - 0s 550us
    /step - loss: 0.4772 - accuracy: 0.8288
74 Epoch 29/175
75 179/179 [=====] - 0s 592us
    /step - loss: 0.4688 - accuracy: 0.8312
76 Epoch 30/175
77 179/179 [=====] - 0s 588us
    /step - loss: 0.4684 - accuracy: 0.8410
78 Epoch 31/175
79 179/179 [=====] - 0s 556us
    /step - loss: 0.4703 - accuracy: 0.8307
80 Epoch 32/175
81 179/179 [=====] - 0s 537us
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81 /step - loss: 0.4593 - accuracy: 0.8321
82 Epoch 33/175
83 179/179 [=====] - 0s
630us/step - loss: 0.4518 - accuracy: 0.8410
84 Epoch 34/175
85 179/179 [=====] - 0s
565us/step - loss: 0.4595 - accuracy: 0.8405
86 Epoch 35/175
87 179/179 [=====] - 0s
603us/step - loss: 0.4531 - accuracy: 0.8302
88 Epoch 36/175
89 179/179 [=====] - 0s
557us/step - loss: 0.4552 - accuracy: 0.8382
90 Epoch 37/175
91 179/179 [=====] - 0s
599us/step - loss: 0.4532 - accuracy: 0.8316
92 Epoch 38/175
93 179/179 [=====] - 0s
547us/step - loss: 0.4527 - accuracy: 0.8428
94 Epoch 39/175
95 179/179 [=====] - 0s
637us/step - loss: 0.4564 - accuracy: 0.8410
96 Epoch 40/175
97 179/179 [=====] - 0s
563us/step - loss: 0.4424 - accuracy: 0.8382
98 Epoch 41/175
99 179/179 [=====] - 0s
591us/step - loss: 0.4273 - accuracy: 0.8438
100 Epoch 42/175
101 179/179 [=====] - 0s
575us/step - loss: 0.4308 - accuracy: 0.8466
102 Epoch 43/175
103 179/179 [=====] - 0s
607us/step - loss: 0.4403 - accuracy: 0.8433
104 Epoch 44/175
105 179/179 [=====] - 0s
563us/step - loss: 0.4377 - accuracy: 0.8424
106 Epoch 45/175
107 179/179 [=====] - 0s
585us/step - loss: 0.4428 - accuracy: 0.8400
108 Epoch 46/175
109 179/179 [=====] - 0s
566us/step - loss: 0.4271 - accuracy: 0.8475
110 Epoch 47/175
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111 179/179 [=====] - 0s
    610us/step - loss: 0.4167 - accuracy: 0.8428
112 Epoch 48/175
113 179/179 [=====] - 0s
    553us/step - loss: 0.4129 - accuracy: 0.8527
114 Epoch 49/175
115 179/179 [=====] - 0s
    583us/step - loss: 0.4217 - accuracy: 0.8489
116 Epoch 50/175
117 179/179 [=====] - 0s
    566us/step - loss: 0.4211 - accuracy: 0.8545
118 Epoch 51/175
119 179/179 [=====] - 0s
    592us/step - loss: 0.4164 - accuracy: 0.8545
120 Epoch 52/175
121 179/179 [=====] - 0s
    574us/step - loss: 0.4225 - accuracy: 0.8475
122 Epoch 53/175
123 179/179 [=====] - 0s
    589us/step - loss: 0.4162 - accuracy: 0.8508
124 Epoch 54/175
125 179/179 [=====] - 0s
    562us/step - loss: 0.4129 - accuracy: 0.8494
126 Epoch 55/175
127 179/179 [=====] - 0s
    576us/step - loss: 0.4160 - accuracy: 0.8550
128 Epoch 56/175
129 179/179 [=====] - 0s
    575us/step - loss: 0.4055 - accuracy: 0.8545
130 Epoch 57/175
131 179/179 [=====] - 0s
    606us/step - loss: 0.4090 - accuracy: 0.8522
132 Epoch 58/175
133 179/179 [=====] - 0s
    558us/step - loss: 0.4072 - accuracy: 0.8522
134 Epoch 59/175
135 179/179 [=====] - 0s
    596us/step - loss: 0.3998 - accuracy: 0.8611
136 Epoch 60/175
137 179/179 [=====] - 0s
    566us/step - loss: 0.4005 - accuracy: 0.8573
138 Epoch 61/175
139 179/179 [=====] - 0s
    622us/step - loss: 0.4049 - accuracy: 0.8531
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140 Epoch 62/175
141 179/179 [=====] - 0s
    572us/step - loss: 0.3988 - accuracy: 0.8508
142 Epoch 63/175
143 179/179 [=====] - 0s
    590us/step - loss: 0.3951 - accuracy: 0.8569
144 Epoch 64/175
145 179/179 [=====] - 0s
    557us/step - loss: 0.3921 - accuracy: 0.8583
146 Epoch 65/175
147 179/179 [=====] - 0s
    555us/step - loss: 0.3936 - accuracy: 0.8578
148 Epoch 66/175
149 179/179 [=====] - 0s
    603us/step - loss: 0.4029 - accuracy: 0.8494
150 Epoch 67/175
151 179/179 [=====] - 0s
    608us/step - loss: 0.3988 - accuracy: 0.8648
152 Epoch 68/175
153 179/179 [=====] - 0s
    564us/step - loss: 0.3930 - accuracy: 0.8536
154 Epoch 69/175
155 179/179 [=====] - 0s
    586us/step - loss: 0.3930 - accuracy: 0.8573
156 Epoch 70/175
157 179/179 [=====] - 0s
    560us/step - loss: 0.3935 - accuracy: 0.8527
158 Epoch 71/175
159 179/179 [=====] - 0s
    597us/step - loss: 0.3966 - accuracy: 0.8564
160 Epoch 72/175
161 179/179 [=====] - 0s
    563us/step - loss: 0.3764 - accuracy: 0.8569
162 Epoch 73/175
163 179/179 [=====] - 0s
    580us/step - loss: 0.3815 - accuracy: 0.8653
164 Epoch 74/175
165 179/179 [=====] - 0s
    569us/step - loss: 0.3812 - accuracy: 0.8653
166 Epoch 75/175
167 179/179 [=====] - 0s
    580us/step - loss: 0.3921 - accuracy: 0.8545
168 Epoch 76/175
169 179/179 [=====] - 0s
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169 581us/step - loss: 0.3709 - accuracy: 0.8634
170 Epoch 77/175
171 179/179 [=====] - 0s
    591us/step - loss: 0.3758 - accuracy: 0.8601
172 Epoch 78/175
173 179/179 [=====] - 0s
    551us/step - loss: 0.3803 - accuracy: 0.8644
174 Epoch 79/175
175 179/179 [=====] - 0s
    573us/step - loss: 0.3812 - accuracy: 0.8592
176 Epoch 80/175
177 179/179 [=====] - 0s
    572us/step - loss: 0.3763 - accuracy: 0.8597
178 Epoch 81/175
179 179/179 [=====] - 0s
    611us/step - loss: 0.3862 - accuracy: 0.8569
180 Epoch 82/175
181 179/179 [=====] - 0s
    556us/step - loss: 0.3756 - accuracy: 0.8559
182 Epoch 83/175
183 179/179 [=====] - 0s
    581us/step - loss: 0.3726 - accuracy: 0.8578
184 Epoch 84/175
185 179/179 [=====] - 0s
    562us/step - loss: 0.3816 - accuracy: 0.8662
186 Epoch 85/175
187 179/179 [=====] - 0s
    592us/step - loss: 0.3628 - accuracy: 0.8648
188 Epoch 86/175
189 179/179 [=====] - 0s
    566us/step - loss: 0.3687 - accuracy: 0.8681
190 Epoch 87/175
191 179/179 [=====] - 0s
    587us/step - loss: 0.3830 - accuracy: 0.8672
192 Epoch 88/175
193 179/179 [=====] - 0s
    558us/step - loss: 0.3681 - accuracy: 0.8634
194 Epoch 89/175
195 179/179 [=====] - 0s
    583us/step - loss: 0.3682 - accuracy: 0.8592
196 Epoch 90/175
197 179/179 [=====] - 0s
    589us/step - loss: 0.3571 - accuracy: 0.8686
198 Epoch 91/175
```

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199 179/179 [=====] - 0s
    583us/step - loss: 0.3749 - accuracy: 0.8587
200 Epoch 92/175
201 179/179 [=====] - 0s
    567us/step - loss: 0.3687 - accuracy: 0.8620
202 Epoch 93/175
203 179/179 [=====] - 0s
    585us/step - loss: 0.3660 - accuracy: 0.8639
204 Epoch 94/175
205 179/179 [=====] - 0s
    561us/step - loss: 0.3516 - accuracy: 0.8709
206 Epoch 95/175
207 179/179 [=====] - 0s
    601us/step - loss: 0.3681 - accuracy: 0.8616
208 Epoch 96/175
209 179/179 [=====] - 0s
    560us/step - loss: 0.3538 - accuracy: 0.8658
210 Epoch 97/175
211 179/179 [=====] - 0s
    586us/step - loss: 0.3666 - accuracy: 0.8672
212 Epoch 98/175
213 179/179 [=====] - 0s
    559us/step - loss: 0.3587 - accuracy: 0.8700
214 Epoch 99/175
215 179/179 [=====] - 0s
    577us/step - loss: 0.3592 - accuracy: 0.8672
216 Epoch 100/175
217 179/179 [=====] - 0s
    588us/step - loss: 0.3669 - accuracy: 0.8634
218 Epoch 101/175
219 179/179 [=====] - 0s
    582us/step - loss: 0.3643 - accuracy: 0.8592
220 Epoch 102/175
221 179/179 [=====] - 0s
    571us/step - loss: 0.3600 - accuracy: 0.8606
222 Epoch 103/175
223 179/179 [=====] - 0s
    606us/step - loss: 0.3502 - accuracy: 0.8714
224 Epoch 104/175
225 179/179 [=====] - 0s
    617us/step - loss: 0.3665 - accuracy: 0.8648
226 Epoch 105/175
227 179/179 [=====] - 0s
    602us/step - loss: 0.3652 - accuracy: 0.8644
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228 Epoch 106/175
229 179/179 [=====] - 0s
    556us/step - loss: 0.3497 - accuracy: 0.8676
230 Epoch 107/175
231 179/179 [=====] - 0s
    596us/step - loss: 0.3490 - accuracy: 0.8718
232 Epoch 108/175
233 179/179 [=====] - 0s
    557us/step - loss: 0.3520 - accuracy: 0.8667
234 Epoch 109/175
235 179/179 [=====] - 0s
    595us/step - loss: 0.3580 - accuracy: 0.8644
236 Epoch 110/175
237 179/179 [=====] - 0s
    564us/step - loss: 0.3453 - accuracy: 0.8742
238 Epoch 111/175
239 179/179 [=====] - 0s
    584us/step - loss: 0.3518 - accuracy: 0.8630
240 Epoch 112/175
241 179/179 [=====] - 0s
    564us/step - loss: 0.3613 - accuracy: 0.8639
242 Epoch 113/175
243 179/179 [=====] - 0s
    578us/step - loss: 0.3602 - accuracy: 0.8700
244 Epoch 114/175
245 179/179 [=====] - 0s
    585us/step - loss: 0.3551 - accuracy: 0.8662
246 Epoch 115/175
247 179/179 [=====] - 0s
    582us/step - loss: 0.3516 - accuracy: 0.8616
248 Epoch 116/175
249 179/179 [=====] - 0s
    569us/step - loss: 0.3629 - accuracy: 0.8648
250 Epoch 117/175
251 179/179 [=====] - 0s
    582us/step - loss: 0.3561 - accuracy: 0.8620
252 Epoch 118/175
253 179/179 [=====] - 0s
    566us/step - loss: 0.3443 - accuracy: 0.8746
254 Epoch 119/175
255 179/179 [=====] - 0s
    598us/step - loss: 0.3481 - accuracy: 0.8648
256 Epoch 120/175
257 179/179 [=====] - 0s
```

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257 566us/step - loss: 0.3394 - accuracy: 0.8732
258 Epoch 121/175
259 179/179 [=====] - 0s
    632us/step - loss: 0.3461 - accuracy: 0.8732
260 Epoch 122/175
261 179/179 [=====] - 0s
    569us/step - loss: 0.3414 - accuracy: 0.8723
262 Epoch 123/175
263 179/179 [=====] - 0s
    573us/step - loss: 0.3693 - accuracy: 0.8587
264 Epoch 124/175
265 179/179 [=====] - 0s
    543us/step - loss: 0.3438 - accuracy: 0.8732
266 Epoch 125/175
267 179/179 [=====] - 0s
    604us/step - loss: 0.3492 - accuracy: 0.8653
268 Epoch 126/175
269 179/179 [=====] - 0s
    580us/step - loss: 0.3519 - accuracy: 0.8737
270 Epoch 127/175
271 179/179 [=====] - 0s
    563us/step - loss: 0.3397 - accuracy: 0.8709
272 Epoch 128/175
273 179/179 [=====] - 0s
    599us/step - loss: 0.3392 - accuracy: 0.8751
274 Epoch 129/175
275 179/179 [=====] - 0s
    554us/step - loss: 0.3416 - accuracy: 0.8709
276 Epoch 130/175
277 179/179 [=====] - 0s
    597us/step - loss: 0.3475 - accuracy: 0.8751
278 Epoch 131/175
279 179/179 [=====] - 0s
    557us/step - loss: 0.3277 - accuracy: 0.8742
280 Epoch 132/175
281 179/179 [=====] - 0s
    595us/step - loss: 0.3526 - accuracy: 0.8611
282 Epoch 133/175
283 179/179 [=====] - 0s
    573us/step - loss: 0.3434 - accuracy: 0.8695
284 Epoch 134/175
285 179/179 [=====] - 0s
    603us/step - loss: 0.3382 - accuracy: 0.8784
286 Epoch 135/175
```

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287 179/179 [=====] - 0s
    591us/step - loss: 0.3347 - accuracy: 0.8723
288 Epoch 136/175
289 179/179 [=====] - 0s
    573us/step - loss: 0.3371 - accuracy: 0.8756
290 Epoch 137/175
291 179/179 [=====] - 0s
    534us/step - loss: 0.3270 - accuracy: 0.8723
292 Epoch 138/175
293 179/179 [=====] - 0s
    677us/step - loss: 0.3331 - accuracy: 0.8723
294 Epoch 139/175
295 179/179 [=====] - 0s
    575us/step - loss: 0.3384 - accuracy: 0.8756
296 Epoch 140/175
297 179/179 [=====] - 0s
    576us/step - loss: 0.3279 - accuracy: 0.8737
298 Epoch 141/175
299 179/179 [=====] - 0s
    556us/step - loss: 0.3330 - accuracy: 0.8765
300 Epoch 142/175
301 179/179 [=====] - 0s
    591us/step - loss: 0.3292 - accuracy: 0.8761
302 Epoch 143/175
303 179/179 [=====] - 0s
    538us/step - loss: 0.3533 - accuracy: 0.8681
304 Epoch 144/175
305 179/179 [=====] - 0s
    675us/step - loss: 0.3434 - accuracy: 0.8686
306 Epoch 145/175
307 179/179 [=====] - 0s
    551us/step - loss: 0.3216 - accuracy: 0.8793
308 Epoch 146/175
309 179/179 [=====] - 0s
    574us/step - loss: 0.3366 - accuracy: 0.8681
310 Epoch 147/175
311 179/179 [=====] - 0s
    596us/step - loss: 0.3257 - accuracy: 0.8770
312 Epoch 148/175
313 179/179 [=====] - 0s
    616us/step - loss: 0.3216 - accuracy: 0.8761
314 Epoch 149/175
315 179/179 [=====] - 0s
    567us/step - loss: 0.3300 - accuracy: 0.8775
```

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316 Epoch 150/175
317 179/179 [=====] - 0s
      581us/step - loss: 0.3351 - accuracy: 0.8732
318 Epoch 151/175
319 179/179 [=====] - 0s
      566us/step - loss: 0.3298 - accuracy: 0.8751
320 Epoch 152/175
321 179/179 [=====] - 0s
      595us/step - loss: 0.3391 - accuracy: 0.8737
322 Epoch 153/175
323 179/179 [=====] - 0s
      562us/step - loss: 0.3278 - accuracy: 0.8756
324 Epoch 154/175
325 179/179 [=====] - 0s
      596us/step - loss: 0.3222 - accuracy: 0.8798
326 Epoch 155/175
327 179/179 [=====] - 0s
      559us/step - loss: 0.3193 - accuracy: 0.8793
328 Epoch 156/175
329 179/179 [=====] - 0s
      582us/step - loss: 0.3332 - accuracy: 0.8709
330 Epoch 157/175
331 179/179 [=====] - 0s
      576us/step - loss: 0.3301 - accuracy: 0.8700
332 Epoch 158/175
333 179/179 [=====] - 0s
      586us/step - loss: 0.3342 - accuracy: 0.8709
334 Epoch 159/175
335 179/179 [=====] - 0s
      559us/step - loss: 0.3166 - accuracy: 0.8863
336 Epoch 160/175
337 179/179 [=====] - 0s
      578us/step - loss: 0.3151 - accuracy: 0.8742
338 Epoch 161/175
339 179/179 [=====] - 0s
      588us/step - loss: 0.3233 - accuracy: 0.8765
340 Epoch 162/175
341 179/179 [=====] - 0s
      645us/step - loss: 0.3169 - accuracy: 0.8789
342 Epoch 163/175
343 179/179 [=====] - 0s
      566us/step - loss: 0.3052 - accuracy: 0.8835
344 Epoch 164/175
345 179/179 [=====] - 0s
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345 616us/step - loss: 0.3264 - accuracy: 0.8789
346 Epoch 165/175
347 179/179 [=====] - 0s
    568us/step - loss: 0.3146 - accuracy: 0.8840
348 Epoch 166/175
349 179/179 [=====] - 0s
    626us/step - loss: 0.3340 - accuracy: 0.8765
350 Epoch 167/175
351 179/179 [=====] - 0s
    570us/step - loss: 0.3280 - accuracy: 0.8756
352 Epoch 168/175
353 179/179 [=====] - 0s
    632us/step - loss: 0.3389 - accuracy: 0.8728
354 Epoch 169/175
355 179/179 [=====] - 0s
    543us/step - loss: 0.3190 - accuracy: 0.8798
356 Epoch 170/175
357 179/179 [=====] - 0s
    557us/step - loss: 0.3137 - accuracy: 0.8849
358 Epoch 171/175
359 179/179 [=====] - 0s
    570us/step - loss: 0.3112 - accuracy: 0.8840
360 Epoch 172/175
361 179/179 [=====] - 0s
    643us/step - loss: 0.3170 - accuracy: 0.8812
362 Epoch 173/175
363 179/179 [=====] - 0s
    563us/step - loss: 0.3284 - accuracy: 0.8732
364 Epoch 174/175
365 179/179 [=====] - 0s
    583us/step - loss: 0.3196 - accuracy: 0.8775
366 Epoch 175/175
367 179/179 [=====] - 0s
    536us/step - loss: 0.3054 - accuracy: 0.8821
368 WARNING:tensorflow:From /Library/Frameworks/Python
.framework/Versions/3.8/lib/python3.8/site-
packages/tensorflow/python/training/tracking/
tracking.py:111: Model.state_updates (from
tensorflow.python.keras.engine.training) is
deprecated and will be removed in a future version
.
369 Instructions for updating:
370 This property should not be used in TensorFlow 2.0
, as updates are applied automatically.
```

```
371 2020-09-03 18:23:15.881912: W tensorflow/python/
    util/util.cc:348] Sets are not currently
    considered sequences, but this may change in the
    future, so consider avoiding using them.
372 WARNING:tensorflow:From /Library/Frameworks/Python
    .framework/Versions/3.8/lib/python3.8/site-
    packages/tensorflow/python/training/tracking/
    tracking.py:111: Layer.updates (from tensorflow.
    python.keras.engine.base_layer) is deprecated and
    will be removed in a future version.
373 Instructions for updating:
374 This property should not be used in TensorFlow 2.0
    , as updates are applied automatically.
375
376 Process finished with exit code 0
377
```