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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 18:38:57.188540: 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 18:38:57.197965: I tensorflow/compiler/xla/service/service.cc:168] XLA service 0x7ff210bba460 initialized for platform Host (this does not guarantee that XLA will be used). Devices:
8 2020-09-03 18:38:57.198005: 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 1/185
19 179/179 [=====] - 0s 610us
/step - loss: 1.4947 - accuracy: 0.4500
20 Epoch 2/185
21 179/179 [=====] - 0s 580us
/step - loss: 0.8570 - accuracy: 0.7011
22 Epoch 3/185
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23 179/179 [=====] - 0s 595us
  /step - loss: 0.6773 - accuracy: 0.7563
24 Epoch 4/185
25 179/179 [=====] - 0s 616us
  /step - loss: 0.6363 - accuracy: 0.7760
26 Epoch 5/185
27 179/179 [=====] - 0s 603us
  /step - loss: 0.6110 - accuracy: 0.7858
28 Epoch 6/185
29 179/179 [=====] - 0s 596us
  /step - loss: 0.5886 - accuracy: 0.7933
30 Epoch 7/185
31 179/179 [=====] - 0s 596us
  /step - loss: 0.5847 - accuracy: 0.7919
32 Epoch 8/185
33 179/179 [=====] - 0s 868us
  /step - loss: 0.5684 - accuracy: 0.7891
34 Epoch 9/185
35 179/179 [=====] - 0s 650us
  /step - loss: 0.5548 - accuracy: 0.7989
36 Epoch 10/185
37 179/179 [=====] - 0s 623us
  /step - loss: 0.5250 - accuracy: 0.8059
38 Epoch 11/185
39 179/179 [=====] - 0s 573us
  /step - loss: 0.5365 - accuracy: 0.8087
40 Epoch 12/185
41 179/179 [=====] - 0s 612us
  /step - loss: 0.5287 - accuracy: 0.8064
42 Epoch 13/185
43 179/179 [=====] - 0s 588us
  /step - loss: 0.5120 - accuracy: 0.8129
44 Epoch 14/185
45 179/179 [=====] - 0s 615us
  /step - loss: 0.5213 - accuracy: 0.8195
46 Epoch 15/185
47 179/179 [=====] - 0s 575us
  /step - loss: 0.4964 - accuracy: 0.8199
48 Epoch 16/185
49 179/179 [=====] - 0s 615us
  /step - loss: 0.4884 - accuracy: 0.8265
50 Epoch 17/185
51 179/179 [=====] - 0s 586us
  /step - loss: 0.4901 - accuracy: 0.8227
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52 Epoch 18/185
53 179/179 [=====] - 0s 622us
    /step - loss: 0.4824 - accuracy: 0.8199
54 Epoch 19/185
55 179/179 [=====] - 0s 572us
    /step - loss: 0.4789 - accuracy: 0.8213
56 Epoch 20/185
57 179/179 [=====] - 0s 613us
    /step - loss: 0.4725 - accuracy: 0.8297
58 Epoch 21/185
59 179/179 [=====] - 0s 573us
    /step - loss: 0.4646 - accuracy: 0.8316
60 Epoch 22/185
61 179/179 [=====] - 0s 638us
    /step - loss: 0.4783 - accuracy: 0.8288
62 Epoch 23/185
63 179/179 [=====] - 0s 571us
    /step - loss: 0.4864 - accuracy: 0.8340
64 Epoch 24/185
65 179/179 [=====] - 0s 626us
    /step - loss: 0.4580 - accuracy: 0.8330
66 Epoch 25/185
67 179/179 [=====] - 0s 550us
    /step - loss: 0.4499 - accuracy: 0.8307
68 Epoch 26/185
69 179/179 [=====] - 0s 621us
    /step - loss: 0.4695 - accuracy: 0.8274
70 Epoch 27/185
71 179/179 [=====] - 0s 597us
    /step - loss: 0.4546 - accuracy: 0.8349
72 Epoch 28/185
73 179/179 [=====] - 0s 620us
    /step - loss: 0.4455 - accuracy: 0.8358
74 Epoch 29/185
75 179/179 [=====] - 0s 578us
    /step - loss: 0.4411 - accuracy: 0.8428
76 Epoch 30/185
77 179/179 [=====] - 0s 616us
    /step - loss: 0.4631 - accuracy: 0.8274
78 Epoch 31/185
79 179/179 [=====] - 0s 589us
    /step - loss: 0.4471 - accuracy: 0.8391
80 Epoch 32/185
81 179/179 [=====] - 0s 624us
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81 /step - loss: 0.4441 - accuracy: 0.8424
82 Epoch 33/185
83 179/179 [=====] - 0s
571us/step - loss: 0.4578 - accuracy: 0.8330
84 Epoch 34/185
85 179/179 [=====] - 0s
610us/step - loss: 0.4555 - accuracy: 0.8344
86 Epoch 35/185
87 179/179 [=====] - 0s
582us/step - loss: 0.4412 - accuracy: 0.8368
88 Epoch 36/185
89 179/179 [=====] - 0s
654us/step - loss: 0.4335 - accuracy: 0.8503
90 Epoch 37/185
91 179/179 [=====] - 0s
576us/step - loss: 0.4298 - accuracy: 0.8414
92 Epoch 38/185
93 179/179 [=====] - 0s
626us/step - loss: 0.4355 - accuracy: 0.8321
94 Epoch 39/185
95 179/179 [=====] - 0s
576us/step - loss: 0.4187 - accuracy: 0.8513
96 Epoch 40/185
97 179/179 [=====] - 0s
639us/step - loss: 0.4264 - accuracy: 0.8494
98 Epoch 41/185
99 179/179 [=====] - 0s
575us/step - loss: 0.4137 - accuracy: 0.8471
100 Epoch 42/185
101 179/179 [=====] - 0s
627us/step - loss: 0.4248 - accuracy: 0.8447
102 Epoch 43/185
103 179/179 [=====] - 0s
573us/step - loss: 0.4239 - accuracy: 0.8466
104 Epoch 44/185
105 179/179 [=====] - 0s
624us/step - loss: 0.4144 - accuracy: 0.8438
106 Epoch 45/185
107 179/179 [=====] - 0s
589us/step - loss: 0.4373 - accuracy: 0.8410
108 Epoch 46/185
109 179/179 [=====] - 0s
607us/step - loss: 0.4034 - accuracy: 0.8555
110 Epoch 47/185
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111 179/179 [=====] - 0s
    599us/step - loss: 0.4190 - accuracy: 0.8438
112 Epoch 48/185
113 179/179 [=====] - 0s
    609us/step - loss: 0.4183 - accuracy: 0.8494
114 Epoch 49/185
115 179/179 [=====] - 0s
    556us/step - loss: 0.4318 - accuracy: 0.8363
116 Epoch 50/185
117 179/179 [=====] - 0s
    618us/step - loss: 0.4222 - accuracy: 0.8461
118 Epoch 51/185
119 179/179 [=====] - 0s
    570us/step - loss: 0.3981 - accuracy: 0.8587
120 Epoch 52/185
121 179/179 [=====] - 0s
    644us/step - loss: 0.4223 - accuracy: 0.8489
122 Epoch 53/185
123 179/179 [=====] - 0s
    587us/step - loss: 0.3947 - accuracy: 0.8494
124 Epoch 54/185
125 179/179 [=====] - 0s
    627us/step - loss: 0.4086 - accuracy: 0.8541
126 Epoch 55/185
127 179/179 [=====] - 0s
    562us/step - loss: 0.4167 - accuracy: 0.8475
128 Epoch 56/185
129 179/179 [=====] - 0s
    600us/step - loss: 0.3843 - accuracy: 0.8592
130 Epoch 57/185
131 179/179 [=====] - 0s
    557us/step - loss: 0.3957 - accuracy: 0.8536
132 Epoch 58/185
133 179/179 [=====] - 0s
    596us/step - loss: 0.3917 - accuracy: 0.8569
134 Epoch 59/185
135 179/179 [=====] - 0s
    577us/step - loss: 0.3892 - accuracy: 0.8541
136 Epoch 60/185
137 179/179 [=====] - 0s
    611us/step - loss: 0.3860 - accuracy: 0.8573
138 Epoch 61/185
139 179/179 [=====] - 0s
    626us/step - loss: 0.3938 - accuracy: 0.8592
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140 Epoch 62/185
141 179/179 [=====] - 0s
    617us/step - loss: 0.3732 - accuracy: 0.8634
142 Epoch 63/185
143 179/179 [=====] - 0s
    567us/step - loss: 0.3792 - accuracy: 0.8601
144 Epoch 64/185
145 179/179 [=====] - 0s
    650us/step - loss: 0.3849 - accuracy: 0.8550
146 Epoch 65/185
147 179/179 [=====] - 0s
    583us/step - loss: 0.3886 - accuracy: 0.8517
148 Epoch 66/185
149 179/179 [=====] - 0s
    619us/step - loss: 0.3769 - accuracy: 0.8620
150 Epoch 67/185
151 179/179 [=====] - 0s
    570us/step - loss: 0.3897 - accuracy: 0.8522
152 Epoch 68/185
153 179/179 [=====] - 0s
    642us/step - loss: 0.3711 - accuracy: 0.8653
154 Epoch 69/185
155 179/179 [=====] - 0s
    575us/step - loss: 0.3702 - accuracy: 0.8578
156 Epoch 70/185
157 179/179 [=====] - 0s
    623us/step - loss: 0.3703 - accuracy: 0.8653
158 Epoch 71/185
159 179/179 [=====] - 0s
    569us/step - loss: 0.3641 - accuracy: 0.8644
160 Epoch 72/185
161 179/179 [=====] - 0s
    622us/step - loss: 0.3796 - accuracy: 0.8564
162 Epoch 73/185
163 179/179 [=====] - 0s
    594us/step - loss: 0.3662 - accuracy: 0.8564
164 Epoch 74/185
165 179/179 [=====] - 0s
    617us/step - loss: 0.3647 - accuracy: 0.8601
166 Epoch 75/185
167 179/179 [=====] - 0s
    566us/step - loss: 0.3631 - accuracy: 0.8676
168 Epoch 76/185
169 179/179 [=====] - 0s
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169 654us/step - loss: 0.3489 - accuracy: 0.8784
170 Epoch 77/185
171 179/179 [=====] - 0s
    593us/step - loss: 0.3572 - accuracy: 0.8601
172 Epoch 78/185
173 179/179 [=====] - 0s
    625us/step - loss: 0.3694 - accuracy: 0.8644
174 Epoch 79/185
175 179/179 [=====] - 0s
    576us/step - loss: 0.3665 - accuracy: 0.8639
176 Epoch 80/185
177 179/179 [=====] - 0s
    622us/step - loss: 0.3806 - accuracy: 0.8583
178 Epoch 81/185
179 179/179 [=====] - 0s
    575us/step - loss: 0.3664 - accuracy: 0.8601
180 Epoch 82/185
181 179/179 [=====] - 0s
    639us/step - loss: 0.3464 - accuracy: 0.8667
182 Epoch 83/185
183 179/179 [=====] - 0s
    574us/step - loss: 0.3569 - accuracy: 0.8620
184 Epoch 84/185
185 179/179 [=====] - 0s
    626us/step - loss: 0.3449 - accuracy: 0.8676
186 Epoch 85/185
187 179/179 [=====] - 0s
    577us/step - loss: 0.3634 - accuracy: 0.8630
188 Epoch 86/185
189 179/179 [=====] - 0s
    634us/step - loss: 0.3523 - accuracy: 0.8667
190 Epoch 87/185
191 179/179 [=====] - 0s
    556us/step - loss: 0.3401 - accuracy: 0.8709
192 Epoch 88/185
193 179/179 [=====] - 0s
    602us/step - loss: 0.3457 - accuracy: 0.8681
194 Epoch 89/185
195 179/179 [=====] - 0s
    562us/step - loss: 0.3426 - accuracy: 0.8695
196 Epoch 90/185
197 179/179 [=====] - 0s
    621us/step - loss: 0.3502 - accuracy: 0.8653
198 Epoch 91/185
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199 179/179 [=====] - 0s
    617us/step - loss: 0.3442 - accuracy: 0.8789
200 Epoch 92/185
201 179/179 [=====] - 0s
    636us/step - loss: 0.3402 - accuracy: 0.8695
202 Epoch 93/185
203 179/179 [=====] - 0s
    573us/step - loss: 0.3506 - accuracy: 0.8644
204 Epoch 94/185
205 179/179 [=====] - 0s
    600us/step - loss: 0.3574 - accuracy: 0.8728
206 Epoch 95/185
207 179/179 [=====] - 0s
    615us/step - loss: 0.3300 - accuracy: 0.8723
208 Epoch 96/185
209 179/179 [=====] - 0s
    676us/step - loss: 0.3431 - accuracy: 0.8681
210 Epoch 97/185
211 179/179 [=====] - 0s
    572us/step - loss: 0.3306 - accuracy: 0.8775
212 Epoch 98/185
213 179/179 [=====] - 0s
    626us/step - loss: 0.3348 - accuracy: 0.8742
214 Epoch 99/185
215 179/179 [=====] - 0s
    575us/step - loss: 0.3329 - accuracy: 0.8695
216 Epoch 100/185
217 179/179 [=====] - 0s
    640us/step - loss: 0.3255 - accuracy: 0.8775
218 Epoch 101/185
219 179/179 [=====] - 0s
    573us/step - loss: 0.3194 - accuracy: 0.8718
220 Epoch 102/185
221 179/179 [=====] - 0s
    623us/step - loss: 0.3233 - accuracy: 0.8789
222 Epoch 103/185
223 179/179 [=====] - 0s
    560us/step - loss: 0.3443 - accuracy: 0.8672
224 Epoch 104/185
225 179/179 [=====] - 0s
    637us/step - loss: 0.3375 - accuracy: 0.8728
226 Epoch 105/185
227 179/179 [=====] - 0s
    607us/step - loss: 0.3399 - accuracy: 0.8700
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228 Epoch 106/185
229 179/179 [=====] - 0s
    623us/step - loss: 0.3235 - accuracy: 0.8686
230 Epoch 107/185
231 179/179 [=====] - 0s
    575us/step - loss: 0.3232 - accuracy: 0.8770
232 Epoch 108/185
233 179/179 [=====] - 0s
    625us/step - loss: 0.3202 - accuracy: 0.8784
234 Epoch 109/185
235 179/179 [=====] - 0s
    595us/step - loss: 0.3140 - accuracy: 0.8751
236 Epoch 110/185
237 179/179 [=====] - 0s
    626us/step - loss: 0.3388 - accuracy: 0.8723
238 Epoch 111/185
239 179/179 [=====] - 0s
    571us/step - loss: 0.3421 - accuracy: 0.8709
240 Epoch 112/185
241 179/179 [=====] - 0s
    624us/step - loss: 0.3289 - accuracy: 0.8700
242 Epoch 113/185
243 179/179 [=====] - 0s
    573us/step - loss: 0.3074 - accuracy: 0.8831
244 Epoch 114/185
245 179/179 [=====] - 0s
    642us/step - loss: 0.3196 - accuracy: 0.8732
246 Epoch 115/185
247 179/179 [=====] - 0s
    570us/step - loss: 0.3144 - accuracy: 0.8798
248 Epoch 116/185
249 179/179 [=====] - 0s
    635us/step - loss: 0.3224 - accuracy: 0.8775
250 Epoch 117/185
251 179/179 [=====] - 0s
    572us/step - loss: 0.3376 - accuracy: 0.8714
252 Epoch 118/185
253 179/179 [=====] - 0s
    639us/step - loss: 0.3059 - accuracy: 0.8891
254 Epoch 119/185
255 179/179 [=====] - 0s
    578us/step - loss: 0.3182 - accuracy: 0.8718
256 Epoch 120/185
257 179/179 [=====] - 0s
```

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257 624us/step - loss: 0.3069 - accuracy: 0.8784
258 Epoch 121/185
259 179/179 [=====] - 0s
    572us/step - loss: 0.3162 - accuracy: 0.8807
260 Epoch 122/185
261 179/179 [=====] - 0s
    621us/step - loss: 0.3018 - accuracy: 0.8831
262 Epoch 123/185
263 179/179 [=====] - 0s
    595us/step - loss: 0.3083 - accuracy: 0.8784
264 Epoch 124/185
265 179/179 [=====] - 0s
    626us/step - loss: 0.3118 - accuracy: 0.8845
266 Epoch 125/185
267 179/179 [=====] - 0s
    574us/step - loss: 0.3106 - accuracy: 0.8826
268 Epoch 126/185
269 179/179 [=====] - 0s
    625us/step - loss: 0.3040 - accuracy: 0.8877
270 Epoch 127/185
271 179/179 [=====] - 0s
    571us/step - loss: 0.3065 - accuracy: 0.8835
272 Epoch 128/185
273 179/179 [=====] - 0s
    644us/step - loss: 0.2922 - accuracy: 0.8934
274 Epoch 129/185
275 179/179 [=====] - 0s
    571us/step - loss: 0.3251 - accuracy: 0.8798
276 Epoch 130/185
277 179/179 [=====] - 0s
    627us/step - loss: 0.3032 - accuracy: 0.8821
278 Epoch 131/185
279 179/179 [=====] - 0s
    574us/step - loss: 0.2978 - accuracy: 0.8775
280 Epoch 132/185
281 179/179 [=====] - 0s
    646us/step - loss: 0.3070 - accuracy: 0.8784
282 Epoch 133/185
283 179/179 [=====] - 0s
    571us/step - loss: 0.3081 - accuracy: 0.8849
284 Epoch 134/185
285 179/179 [=====] - 0s
    626us/step - loss: 0.2958 - accuracy: 0.8831
286 Epoch 135/185
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287 179/179 [=====] - 0s
    578us/step - loss: 0.3124 - accuracy: 0.8854
288 Epoch 136/185
289 179/179 [=====] - 0s
    608us/step - loss: 0.2867 - accuracy: 0.8887
290 Epoch 137/185
291 179/179 [=====] - 0s
    597us/step - loss: 0.2933 - accuracy: 0.8812
292 Epoch 138/185
293 179/179 [=====] - 0s
    628us/step - loss: 0.2921 - accuracy: 0.8859
294 Epoch 139/185
295 179/179 [=====] - 0s
    574us/step - loss: 0.2914 - accuracy: 0.8835
296 Epoch 140/185
297 179/179 [=====] - 0s
    618us/step - loss: 0.3009 - accuracy: 0.8854
298 Epoch 141/185
299 179/179 [=====] - 0s
    603us/step - loss: 0.2917 - accuracy: 0.8882
300 Epoch 142/185
301 179/179 [=====] - 0s
    634us/step - loss: 0.3207 - accuracy: 0.8742
302 Epoch 143/185
303 179/179 [=====] - 0s
    574us/step - loss: 0.2953 - accuracy: 0.8835
304 Epoch 144/185
305 179/179 [=====] - 0s
    618us/step - loss: 0.3148 - accuracy: 0.8742
306 Epoch 145/185
307 179/179 [=====] - 0s
    570us/step - loss: 0.2963 - accuracy: 0.8868
308 Epoch 146/185
309 179/179 [=====] - 0s
    644us/step - loss: 0.2860 - accuracy: 0.8891
310 Epoch 147/185
311 179/179 [=====] - 0s
    572us/step - loss: 0.2707 - accuracy: 0.9013
312 Epoch 148/185
313 179/179 [=====] - 0s
    632us/step - loss: 0.3043 - accuracy: 0.8779
314 Epoch 149/185
315 179/179 [=====] - 0s
    571us/step - loss: 0.2836 - accuracy: 0.8920
```

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316 Epoch 150/185
317 179/179 [=====] - 0s
    633us/step - loss: 0.3115 - accuracy: 0.8803
318 Epoch 151/185
319 179/179 [=====] - 0s
    578us/step - loss: 0.2976 - accuracy: 0.8910
320 Epoch 152/185
321 179/179 [=====] - 0s
    630us/step - loss: 0.2816 - accuracy: 0.8901
322 Epoch 153/185
323 179/179 [=====] - 0s
    573us/step - loss: 0.2781 - accuracy: 0.8924
324 Epoch 154/185
325 179/179 [=====] - 0s
    617us/step - loss: 0.2769 - accuracy: 0.8906
326 Epoch 155/185
327 179/179 [=====] - 0s
    595us/step - loss: 0.2738 - accuracy: 0.8896
328 Epoch 156/185
329 179/179 [=====] - 0s
    622us/step - loss: 0.2937 - accuracy: 0.8873
330 Epoch 157/185
331 179/179 [=====] - 0s
    572us/step - loss: 0.2884 - accuracy: 0.8887
332 Epoch 158/185
333 179/179 [=====] - 0s
    602us/step - loss: 0.2714 - accuracy: 0.8966
334 Epoch 159/185
335 179/179 [=====] - 0s
    581us/step - loss: 0.2799 - accuracy: 0.8891
336 Epoch 160/185
337 179/179 [=====] - 0s
    646us/step - loss: 0.2811 - accuracy: 0.8896
338 Epoch 161/185
339 179/179 [=====] - 0s
    565us/step - loss: 0.2854 - accuracy: 0.8854
340 Epoch 162/185
341 179/179 [=====] - 0s
    629us/step - loss: 0.2930 - accuracy: 0.8924
342 Epoch 163/185
343 179/179 [=====] - 0s
    608us/step - loss: 0.2583 - accuracy: 0.9018
344 Epoch 164/185
345 179/179 [=====] - 0s
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345 636us/step - loss: 0.2713 - accuracy: 0.8971
346 Epoch 165/185
347 179/179 [=====] - 0s
    578us/step - loss: 0.2637 - accuracy: 0.8948
348 Epoch 166/185
349 179/179 [=====] - 0s
    619us/step - loss: 0.2748 - accuracy: 0.8929
350 Epoch 167/185
351 179/179 [=====] - 0s
    576us/step - loss: 0.2867 - accuracy: 0.8882
352 Epoch 168/185
353 179/179 [=====] - 0s
    619us/step - loss: 0.2781 - accuracy: 0.8859
354 Epoch 169/185
355 179/179 [=====] - 0s
    591us/step - loss: 0.2620 - accuracy: 0.8966
356 Epoch 170/185
357 179/179 [=====] - 0s
    621us/step - loss: 0.2634 - accuracy: 0.8938
358 Epoch 171/185
359 179/179 [=====] - 0s
    572us/step - loss: 0.2767 - accuracy: 0.8957
360 Epoch 172/185
361 179/179 [=====] - 0s
    622us/step - loss: 0.2791 - accuracy: 0.8915
362 Epoch 173/185
363 179/179 [=====] - 0s
    593us/step - loss: 0.2760 - accuracy: 0.8924
364 Epoch 174/185
365 179/179 [=====] - 0s
    621us/step - loss: 0.2921 - accuracy: 0.8859
366 Epoch 175/185
367 179/179 [=====] - 0s
    573us/step - loss: 0.2572 - accuracy: 0.8980
368 Epoch 176/185
369 179/179 [=====] - 0s
    618us/step - loss: 0.2531 - accuracy: 0.8999
370 Epoch 177/185
371 179/179 [=====] - 0s
    576us/step - loss: 0.2664 - accuracy: 0.9008
372 Epoch 178/185
373 179/179 [=====] - 0s
    635us/step - loss: 0.2532 - accuracy: 0.8994
374 Epoch 179/185
```

```
375 179/179 [=====] - 0s
    559us/step - loss: 0.2572 - accuracy: 0.9008
376 Epoch 180/185
377 179/179 [=====] - 0s
    663us/step - loss: 0.2470 - accuracy: 0.9051
378 Epoch 181/185
379 179/179 [=====] - 0s
    573us/step - loss: 0.2545 - accuracy: 0.9027
380 Epoch 182/185
381 179/179 [=====] - 0s
    604us/step - loss: 0.2685 - accuracy: 0.8948
382 Epoch 183/185
383 179/179 [=====] - 0s
    621us/step - loss: 0.2839 - accuracy: 0.8976
384 Epoch 184/185
385 179/179 [=====] - 0s
    641us/step - loss: 0.2882 - accuracy: 0.8896
386 Epoch 185/185
387 179/179 [=====] - 0s
    571us/step - loss: 0.2806 - accuracy: 0.8849
388 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
.
389 Instructions for updating:
390 This property should not be used in TensorFlow 2.0
, as updates are applied automatically.
391 2020-09-03 18:39:17.971135: 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.
392 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.
393 Instructions for updating:
394 This property should not be used in TensorFlow 2.0
, as updates are applied automatically.
395
```

```
396 Process finished with exit code 0
```

```
397
```