

```
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 18:35:56.354852: 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 18:35:56.364480: I tensorflow/compiler/
  xla/service/service.cc:168] XLA service
  0x7ff9ad30a930 initialized for platform Host (this
  does not guarantee that XLA will be used). Devices:
8 2020-09-03 18:35:56.364505: 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 602us
  /step - loss: 1.5692 - accuracy: 0.4172
20 Epoch 2/175
21 179/179 [=====] - 0s 584us
  /step - loss: 0.9939 - accuracy: 0.6735
22 Epoch 3/175
```

```
23 179/179 [=====] - 0s 589us
  /step - loss: 0.7587 - accuracy: 0.7409
24 Epoch 4/175
25 179/179 [=====] - 0s 585us
  /step - loss: 0.6679 - accuracy: 0.7760
26 Epoch 5/175
27 179/179 [=====] - 0s 634us
  /step - loss: 0.6206 - accuracy: 0.7774
28 Epoch 6/175
29 179/179 [=====] - 0s 606us
  /step - loss: 0.6184 - accuracy: 0.7769
30 Epoch 7/175
31 179/179 [=====] - 0s 604us
  /step - loss: 0.5795 - accuracy: 0.7993
32 Epoch 8/175
33 179/179 [=====] - 0s 851us
  /step - loss: 0.5686 - accuracy: 0.7961
34 Epoch 9/175
35 179/179 [=====] - 0s 603us
  /step - loss: 0.5573 - accuracy: 0.7965
36 Epoch 10/175
37 179/179 [=====] - 0s 617us
  /step - loss: 0.5442 - accuracy: 0.8040
38 Epoch 11/175
39 179/179 [=====] - 0s 579us
  /step - loss: 0.5379 - accuracy: 0.8087
40 Epoch 12/175
41 179/179 [=====] - 0s 629us
  /step - loss: 0.5147 - accuracy: 0.8092
42 Epoch 13/175
43 179/179 [=====] - 0s 577us
  /step - loss: 0.5371 - accuracy: 0.8050
44 Epoch 14/175
45 179/179 [=====] - 0s 643us
  /step - loss: 0.5286 - accuracy: 0.8087
46 Epoch 15/175
47 179/179 [=====] - 0s 578us
  /step - loss: 0.5237 - accuracy: 0.8162
48 Epoch 16/175
49 179/179 [=====] - 0s 624us
  /step - loss: 0.5032 - accuracy: 0.8185
50 Epoch 17/175
51 179/179 [=====] - 0s 581us
  /step - loss: 0.5155 - accuracy: 0.8209
```

```
52 Epoch 18/175
53 179/179 [=====] - 0s 641us
    /step - loss: 0.5089 - accuracy: 0.8157
54 Epoch 19/175
55 179/179 [=====] - 0s 577us
    /step - loss: 0.4834 - accuracy: 0.8246
56 Epoch 20/175
57 179/179 [=====] - 0s 622us
    /step - loss: 0.4831 - accuracy: 0.8335
58 Epoch 21/175
59 179/179 [=====] - 0s 564us
    /step - loss: 0.4846 - accuracy: 0.8241
60 Epoch 22/175
61 179/179 [=====] - 0s 602us
    /step - loss: 0.4820 - accuracy: 0.8335
62 Epoch 23/175
63 179/179 [=====] - 0s 579us
    /step - loss: 0.4596 - accuracy: 0.8307
64 Epoch 24/175
65 179/179 [=====] - 0s 615us
    /step - loss: 0.4648 - accuracy: 0.8372
66 Epoch 25/175
67 179/179 [=====] - 0s 593us
    /step - loss: 0.4625 - accuracy: 0.8274
68 Epoch 26/175
69 179/179 [=====] - 0s 605us
    /step - loss: 0.4617 - accuracy: 0.8307
70 Epoch 27/175
71 179/179 [=====] - 0s 617us
    /step - loss: 0.4647 - accuracy: 0.8274
72 Epoch 28/175
73 179/179 [=====] - 0s 630us
    /step - loss: 0.4567 - accuracy: 0.8344
74 Epoch 29/175
75 179/179 [=====] - 0s 581us
    /step - loss: 0.4526 - accuracy: 0.8358
76 Epoch 30/175
77 179/179 [=====] - 0s 622us
    /step - loss: 0.4540 - accuracy: 0.8410
78 Epoch 31/175
79 179/179 [=====] - 0s 578us
    /step - loss: 0.4468 - accuracy: 0.8386
80 Epoch 32/175
81 179/179 [=====] - 0s 637us
```

```
81 /step - loss: 0.4498 - accuracy: 0.8354
82 Epoch 33/175
83 179/179 [=====] - 0s
580us/step - loss: 0.4412 - accuracy: 0.8391
84 Epoch 34/175
85 179/179 [=====] - 0s
621us/step - loss: 0.4411 - accuracy: 0.8372
86 Epoch 35/175
87 179/179 [=====] - 0s
578us/step - loss: 0.4559 - accuracy: 0.8349
88 Epoch 36/175
89 179/179 [=====] - 0s
626us/step - loss: 0.4302 - accuracy: 0.8447
90 Epoch 37/175
91 179/179 [=====] - 0s
593us/step - loss: 0.4559 - accuracy: 0.8293
92 Epoch 38/175
93 179/179 [=====] - 0s
622us/step - loss: 0.4366 - accuracy: 0.8447
94 Epoch 39/175
95 179/179 [=====] - 0s
579us/step - loss: 0.4354 - accuracy: 0.8410
96 Epoch 40/175
97 179/179 [=====] - 0s
620us/step - loss: 0.4293 - accuracy: 0.8424
98 Epoch 41/175
99 179/179 [=====] - 0s
595us/step - loss: 0.4239 - accuracy: 0.8485
100 Epoch 42/175
101 179/179 [=====] - 0s
624us/step - loss: 0.4336 - accuracy: 0.8377
102 Epoch 43/175
103 179/179 [=====] - 0s
577us/step - loss: 0.4171 - accuracy: 0.8485
104 Epoch 44/175
105 179/179 [=====] - 0s
624us/step - loss: 0.4196 - accuracy: 0.8475
106 Epoch 45/175
107 179/179 [=====] - 0s
580us/step - loss: 0.4149 - accuracy: 0.8447
108 Epoch 46/175
109 179/179 [=====] - 0s
629us/step - loss: 0.4213 - accuracy: 0.8419
110 Epoch 47/175
```

```
111 179/179 [=====] - 0s
    577us/step - loss: 0.4161 - accuracy: 0.8499
112 Epoch 48/175
113 179/179 [=====] - 0s
    650us/step - loss: 0.4230 - accuracy: 0.8414
114 Epoch 49/175
115 179/179 [=====] - 0s
    577us/step - loss: 0.4254 - accuracy: 0.8433
116 Epoch 50/175
117 179/179 [=====] - 0s
    634us/step - loss: 0.4051 - accuracy: 0.8461
118 Epoch 51/175
119 179/179 [=====] - 0s
    633us/step - loss: 0.4138 - accuracy: 0.8508
120 Epoch 52/175
121 179/179 [=====] - 0s
    656us/step - loss: 0.3989 - accuracy: 0.8545
122 Epoch 53/175
123 179/179 [=====] - 0s
    578us/step - loss: 0.3933 - accuracy: 0.8564
124 Epoch 54/175
125 179/179 [=====] - 0s
    629us/step - loss: 0.4021 - accuracy: 0.8611
126 Epoch 55/175
127 179/179 [=====] - 0s
    596us/step - loss: 0.3940 - accuracy: 0.8569
128 Epoch 56/175
129 179/179 [=====] - 0s
    625us/step - loss: 0.3999 - accuracy: 0.8499
130 Epoch 57/175
131 179/179 [=====] - 0s
    578us/step - loss: 0.3913 - accuracy: 0.8555
132 Epoch 58/175
133 179/179 [=====] - 0s
    666us/step - loss: 0.4012 - accuracy: 0.8513
134 Epoch 59/175
135 179/179 [=====] - 0s
    605us/step - loss: 0.3999 - accuracy: 0.8536
136 Epoch 60/175
137 179/179 [=====] - 0s
    629us/step - loss: 0.3999 - accuracy: 0.8475
138 Epoch 61/175
139 179/179 [=====] - 0s
    581us/step - loss: 0.4004 - accuracy: 0.8531
```

```
140 Epoch 62/175
141 179/179 [=====] - 0s
    627us/step - loss: 0.3905 - accuracy: 0.8592
142 Epoch 63/175
143 179/179 [=====] - 0s
    568us/step - loss: 0.3894 - accuracy: 0.8583
144 Epoch 64/175
145 179/179 [=====] - 0s
    656us/step - loss: 0.3983 - accuracy: 0.8573
146 Epoch 65/175
147 179/179 [=====] - 0s
    600us/step - loss: 0.3905 - accuracy: 0.8597
148 Epoch 66/175
149 179/179 [=====] - 0s
    632us/step - loss: 0.3872 - accuracy: 0.8583
150 Epoch 67/175
151 179/179 [=====] - 0s
    583us/step - loss: 0.3975 - accuracy: 0.8466
152 Epoch 68/175
153 179/179 [=====] - 0s
    641us/step - loss: 0.3782 - accuracy: 0.8625
154 Epoch 69/175
155 179/179 [=====] - 0s
    580us/step - loss: 0.3683 - accuracy: 0.8625
156 Epoch 70/175
157 179/179 [=====] - 0s
    632us/step - loss: 0.3688 - accuracy: 0.8625
158 Epoch 71/175
159 179/179 [=====] - 0s
    580us/step - loss: 0.3832 - accuracy: 0.8639
160 Epoch 72/175
161 179/179 [=====] - 0s
    617us/step - loss: 0.3751 - accuracy: 0.8653
162 Epoch 73/175
163 179/179 [=====] - 0s
    605us/step - loss: 0.3737 - accuracy: 0.8592
164 Epoch 74/175
165 179/179 [=====] - 0s
    666us/step - loss: 0.3635 - accuracy: 0.8616
166 Epoch 75/175
167 179/179 [=====] - 0s
    572us/step - loss: 0.3760 - accuracy: 0.8653
168 Epoch 76/175
169 179/179 [=====] - 0s
```

```
169 616us/step - loss: 0.3591 - accuracy: 0.8695
170 Epoch 77/175
171 179/179 [=====] - 0s
    639us/step - loss: 0.3653 - accuracy: 0.8639
172 Epoch 78/175
173 179/179 [=====] - 0s
    627us/step - loss: 0.3630 - accuracy: 0.8648
174 Epoch 79/175
175 179/179 [=====] - 0s
    579us/step - loss: 0.3529 - accuracy: 0.8686
176 Epoch 80/175
177 179/179 [=====] - 0s
    630us/step - loss: 0.3767 - accuracy: 0.8648
178 Epoch 81/175
179 179/179 [=====] - 0s
    578us/step - loss: 0.3787 - accuracy: 0.8658
180 Epoch 82/175
181 179/179 [=====] - 0s
    644us/step - loss: 0.3662 - accuracy: 0.8648
182 Epoch 83/175
183 179/179 [=====] - 0s
    571us/step - loss: 0.3635 - accuracy: 0.8639
184 Epoch 84/175
185 179/179 [=====] - 0s
    617us/step - loss: 0.3642 - accuracy: 0.8686
186 Epoch 85/175
187 179/179 [=====] - 0s
    610us/step - loss: 0.3668 - accuracy: 0.8573
188 Epoch 86/175
189 179/179 [=====] - 0s
    638us/step - loss: 0.3452 - accuracy: 0.8728
190 Epoch 87/175
191 179/179 [=====] - 0s
    565us/step - loss: 0.3622 - accuracy: 0.8681
192 Epoch 88/175
193 179/179 [=====] - 0s
    627us/step - loss: 0.3409 - accuracy: 0.8709
194 Epoch 89/175
195 179/179 [=====] - 0s
    578us/step - loss: 0.3559 - accuracy: 0.8644
196 Epoch 90/175
197 179/179 [=====] - 0s
    628us/step - loss: 0.3419 - accuracy: 0.8718
198 Epoch 91/175
```

```
199 179/179 [=====] - 0s
    598us/step - loss: 0.3548 - accuracy: 0.8704
200 Epoch 92/175
201 179/179 [=====] - 0s
    630us/step - loss: 0.3481 - accuracy: 0.8672
202 Epoch 93/175
203 179/179 [=====] - 0s
    579us/step - loss: 0.3626 - accuracy: 0.8700
204 Epoch 94/175
205 179/179 [=====] - 0s
    631us/step - loss: 0.3527 - accuracy: 0.8653
206 Epoch 95/175
207 179/179 [=====] - 0s
    584us/step - loss: 0.3400 - accuracy: 0.8667
208 Epoch 96/175
209 179/179 [=====] - 0s
    648us/step - loss: 0.3415 - accuracy: 0.8737
210 Epoch 97/175
211 179/179 [=====] - 0s
    581us/step - loss: 0.3386 - accuracy: 0.8765
212 Epoch 98/175
213 179/179 [=====] - 0s
    632us/step - loss: 0.3432 - accuracy: 0.8728
214 Epoch 99/175
215 179/179 [=====] - 0s
    582us/step - loss: 0.3351 - accuracy: 0.8826
216 Epoch 100/175
217 179/179 [=====] - 0s
    646us/step - loss: 0.3437 - accuracy: 0.8714
218 Epoch 101/175
219 179/179 [=====] - 0s
    580us/step - loss: 0.3392 - accuracy: 0.8704
220 Epoch 102/175
221 179/179 [=====] - 0s
    630us/step - loss: 0.3261 - accuracy: 0.8775
222 Epoch 103/175
223 179/179 [=====] - 0s
    577us/step - loss: 0.3481 - accuracy: 0.8676
224 Epoch 104/175
225 179/179 [=====] - 0s
    630us/step - loss: 0.3270 - accuracy: 0.8746
226 Epoch 105/175
227 179/179 [=====] - 0s
    599us/step - loss: 0.3400 - accuracy: 0.8709
```

```
228 Epoch 106/175
229 179/179 [=====] - 0s
    635us/step - loss: 0.3324 - accuracy: 0.8732
230 Epoch 107/175
231 179/179 [=====] - 0s
    569us/step - loss: 0.3285 - accuracy: 0.8798
232 Epoch 108/175
233 179/179 [=====] - 0s
    630us/step - loss: 0.3150 - accuracy: 0.8798
234 Epoch 109/175
235 179/179 [=====] - 0s
    596us/step - loss: 0.3564 - accuracy: 0.8690
236 Epoch 110/175
237 179/179 [=====] - 0s
    634us/step - loss: 0.3202 - accuracy: 0.8770
238 Epoch 111/175
239 179/179 [=====] - 0s
    576us/step - loss: 0.3383 - accuracy: 0.8714
240 Epoch 112/175
241 179/179 [=====] - 0s
    627us/step - loss: 0.3302 - accuracy: 0.8737
242 Epoch 113/175
243 179/179 [=====] - 0s
    581us/step - loss: 0.3273 - accuracy: 0.8756
244 Epoch 114/175
245 179/179 [=====] - 0s
    646us/step - loss: 0.3329 - accuracy: 0.8700
246 Epoch 115/175
247 179/179 [=====] - 0s
    577us/step - loss: 0.3205 - accuracy: 0.8765
248 Epoch 116/175
249 179/179 [=====] - 0s
    631us/step - loss: 0.3166 - accuracy: 0.8812
250 Epoch 117/175
251 179/179 [=====] - 0s
    581us/step - loss: 0.3183 - accuracy: 0.8840
252 Epoch 118/175
253 179/179 [=====] - 0s
    645us/step - loss: 0.3266 - accuracy: 0.8761
254 Epoch 119/175
255 179/179 [=====] - 0s
    579us/step - loss: 0.3248 - accuracy: 0.8718
256 Epoch 120/175
257 179/179 [=====] - 0s
```

```
257 632us/step - loss: 0.3395 - accuracy: 0.8695
258 Epoch 121/175
259 179/179 [=====] - 0s
    581us/step - loss: 0.3173 - accuracy: 0.8793
260 Epoch 122/175
261 179/179 [=====] - 0s
    632us/step - loss: 0.3110 - accuracy: 0.8835
262 Epoch 123/175
263 179/179 [=====] - 0s
    598us/step - loss: 0.3069 - accuracy: 0.8826
264 Epoch 124/175
265 179/179 [=====] - 0s
    631us/step - loss: 0.3129 - accuracy: 0.8835
266 Epoch 125/175
267 179/179 [=====] - 0s
    579us/step - loss: 0.3250 - accuracy: 0.8761
268 Epoch 126/175
269 179/179 [=====] - 0s
    627us/step - loss: 0.3243 - accuracy: 0.8770
270 Epoch 127/175
271 179/179 [=====] - 0s
    577us/step - loss: 0.3157 - accuracy: 0.8831
272 Epoch 128/175
273 179/179 [=====] - 0s
    660us/step - loss: 0.3116 - accuracy: 0.8817
274 Epoch 129/175
275 179/179 [=====] - 0s
    580us/step - loss: 0.3155 - accuracy: 0.8826
276 Epoch 130/175
277 179/179 [=====] - 0s
    630us/step - loss: 0.3085 - accuracy: 0.8793
278 Epoch 131/175
279 179/179 [=====] - 0s
    580us/step - loss: 0.3087 - accuracy: 0.8845
280 Epoch 132/175
281 179/179 [=====] - 0s
    651us/step - loss: 0.3105 - accuracy: 0.8807
282 Epoch 133/175
283 179/179 [=====] - 0s
    567us/step - loss: 0.3013 - accuracy: 0.8831
284 Epoch 134/175
285 179/179 [=====] - 0s
    631us/step - loss: 0.3283 - accuracy: 0.8761
286 Epoch 135/175
```

```
287 179/179 [=====] - 0s
    615us/step - loss: 0.3032 - accuracy: 0.8887
288 Epoch 136/175
289 179/179 [=====] - 0s
    638us/step - loss: 0.3074 - accuracy: 0.8807
290 Epoch 137/175
291 179/179 [=====] - 0s
    580us/step - loss: 0.3155 - accuracy: 0.8826
292 Epoch 138/175
293 179/179 [=====] - 0s
    628us/step - loss: 0.3135 - accuracy: 0.8775
294 Epoch 139/175
295 179/179 [=====] - 0s
    581us/step - loss: 0.3042 - accuracy: 0.8849
296 Epoch 140/175
297 179/179 [=====] - 0s
    630us/step - loss: 0.3442 - accuracy: 0.8672
298 Epoch 141/175
299 179/179 [=====] - 0s
    597us/step - loss: 0.3121 - accuracy: 0.8751
300 Epoch 142/175
301 179/179 [=====] - 0s
    628us/step - loss: 0.3056 - accuracy: 0.8849
302 Epoch 143/175
303 179/179 [=====] - 0s
    581us/step - loss: 0.3084 - accuracy: 0.8826
304 Epoch 144/175
305 179/179 [=====] - 0s
    626us/step - loss: 0.3209 - accuracy: 0.8793
306 Epoch 145/175
307 179/179 [=====] - 0s
    582us/step - loss: 0.2952 - accuracy: 0.8845
308 Epoch 146/175
309 179/179 [=====] - 0s
    638us/step - loss: 0.3122 - accuracy: 0.8835
310 Epoch 147/175
311 179/179 [=====] - 0s
    587us/step - loss: 0.3021 - accuracy: 0.8863
312 Epoch 148/175
313 179/179 [=====] - 0s
    628us/step - loss: 0.3419 - accuracy: 0.8686
314 Epoch 149/175
315 179/179 [=====] - 0s
    580us/step - loss: 0.3028 - accuracy: 0.8812
```

```
316 Epoch 150/175
317 179/179 [=====] - 0s
    651us/step - loss: 0.2875 - accuracy: 0.8910
318 Epoch 151/175
319 179/179 [=====] - 0s
    571us/step - loss: 0.2898 - accuracy: 0.8924
320 Epoch 152/175
321 179/179 [=====] - 0s
    615us/step - loss: 0.2949 - accuracy: 0.8882
322 Epoch 153/175
323 179/179 [=====] - 0s
    578us/step - loss: 0.2912 - accuracy: 0.8868
324 Epoch 154/175
325 179/179 [=====] - 0s
    626us/step - loss: 0.3003 - accuracy: 0.8868
326 Epoch 155/175
327 179/179 [=====] - 0s
    598us/step - loss: 0.2995 - accuracy: 0.8849
328 Epoch 156/175
329 179/179 [=====] - 0s
    628us/step - loss: 0.2904 - accuracy: 0.8901
330 Epoch 157/175
331 179/179 [=====] - 0s
    579us/step - loss: 0.3103 - accuracy: 0.8812
332 Epoch 158/175
333 179/179 [=====] - 0s
    629us/step - loss: 0.2936 - accuracy: 0.8859
334 Epoch 159/175
335 179/179 [=====] - 0s
    599us/step - loss: 0.2969 - accuracy: 0.8891
336 Epoch 160/175
337 179/179 [=====] - 0s
    629us/step - loss: 0.2923 - accuracy: 0.8821
338 Epoch 161/175
339 179/179 [=====] - 0s
    578us/step - loss: 0.2942 - accuracy: 0.8845
340 Epoch 162/175
341 179/179 [=====] - 0s
    631us/step - loss: 0.2976 - accuracy: 0.8868
342 Epoch 163/175
343 179/179 [=====] - 0s
    585us/step - loss: 0.2906 - accuracy: 0.8845
344 Epoch 164/175
345 179/179 [=====] - 0s
```

```
345 634us/step - loss: 0.3063 - accuracy: 0.8784
346 Epoch 165/175
347 179/179 [=====] - 0s
588us/step - loss: 0.2962 - accuracy: 0.8887
348 Epoch 166/175
349 179/179 [=====] - 0s
637us/step - loss: 0.2917 - accuracy: 0.8901
350 Epoch 167/175
351 179/179 [=====] - 0s
559us/step - loss: 0.2820 - accuracy: 0.8962
352 Epoch 168/175
353 179/179 [=====] - 0s
608us/step - loss: 0.2830 - accuracy: 0.8985
354 Epoch 169/175
355 179/179 [=====] - 0s
578us/step - loss: 0.2943 - accuracy: 0.8901
356 Epoch 170/175
357 179/179 [=====] - 0s
651us/step - loss: 0.2931 - accuracy: 0.8896
358 Epoch 171/175
359 179/179 [=====] - 0s
582us/step - loss: 0.2933 - accuracy: 0.8868
360 Epoch 172/175
361 179/179 [=====] - 0s
630us/step - loss: 0.2917 - accuracy: 0.8920
362 Epoch 173/175
363 179/179 [=====] - 0s
598us/step - loss: 0.2810 - accuracy: 0.8906
364 Epoch 174/175
365 179/179 [=====] - 0s
623us/step - loss: 0.2864 - accuracy: 0.8938
366 Epoch 175/175
367 179/179 [=====] - 0s
581us/step - loss: 0.2760 - accuracy: 0.8929
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 18:36:16.215272: 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
```