

```
1 import numpy as np
2 import streamlit as st
3 import pickle
4 import math
5
6 pipe = pickle.load(open('pipe.pkl', 'rb'))
7 df = pickle.load(open('df.pkl', 'rb'))
8 # brand
9
10 st.title("Laptop Predictor")
11 company = st.selectbox ('Brand',df['Company'].unique
    ())
12
13 #type of laptop
14
15 type = st.selectbox ('Type', df['TypeName'].unique())
16
17
18 # Ram
19 ram = st.selectbox ('RAM(in GB)', [2,4,6,8,12, 16, 24
    , 32,64])
20
21 # weight
22
23 weight = st.number_input('Weight of the Laptop')
24
25 # Touchscreen
26
27 touchscreen = st.selectbox ('Touchscreen', ['No', '
    Yes'])
28
29 #IPS
30
31 ips = st.selectbox ('IPS', ['No', 'Yes'])
32
33 # screen size
34
35 screen_size = st.number_input('Screen Size')
36
37 # resolution
38
```

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39 resolution = st.selectbox ('Screen Resolution', ['
    1920x1080', '1366x768", 1600x900', '3840x2160', '
    3200x1800', '2880x1800', '2560x1600', '2560x1440", 1
    2304x1440'])
40
41 #cpu
42
43 #Add Configuration
44
45 cpu = st.selectbox ('CPU',df['Cpu brand'].unique())
46
47 hdd = st.selectbox('HDD (in GB)', [0,128,256,512,1024
    ,2048])
48
49 ssd = st.selectbox ('SSD (in GB)', [0,8,128, 256,512,
    1024])
50 gpu = st.selectbox ('GPU',df['Gpu brand'].unique())
51
52 os = st.selectbox ('OS',df['os'].unique())
53
54 if st.button('Predict Price'):
55     # query
56
57     ppi = None
58     if touchscreen == 'Yes':
59         touchscreen = 1
60     else:
61         touchscreen = 0
62     if ips == 'Yes':
63         ips = 1
64     else:
65         ips = 0
66
67     X_res = int(resolution.split('x')[0])
68     Y_res = int(resolution.split('x')[1])
69     ppi = ((X_res**2) + (Y_res**2)) ** 0.5 /
    screen_size
70     query = np.array([company, type, ram, weight,
    touchscreen, ips, ppi, cpu, hdd, ssd, gpu, os])
71     query = query.reshape(1, 12)
72

```

```
73     st.title("The predicted price of this  
    configuration is " + str(int(np.exp(pipe.predict(  
    query)[0]))))  
74  
75  
76  
77
```