

```

1  import streamlit as st
2  import pickle
3  import numpy as np
4
5  # import the model
6  pipe = pickle.load(open('pipe.pkl','rb'))
7  df = pickle.load(open('df.pkl','rb'))
8
9  st.title("Laptop Price Predictor")
10
11  # brand
12  company = st.selectbox('Brand',df['Company'].unique())
13
14  # type of laptop
15  type = st.selectbox('Type',df['TypeName'].unique())
16
17  # Ram
18  ram = st.selectbox('RAM(in GB)',[2,4,6,8,12,16,24,32,64])
19
20  # weight
21  weight = st.number_input('Weight of the Laptop')
22
23  # Touchscreen
24  touchscreen = st.selectbox('Touchscreen',['No','Yes'])
25
26  # IPS
27  ips = st.selectbox('IPS',['No','Yes'])
28
29  # screen size
30  screen_size = st.number_input('Screen Size')
31
32  # resolution
33  resolution = st.selectbox('Screen Resolution',
34  ['1920x1080','1366x768','1600x900','3840x2160','3200x1800','2880x1800','2560x1600','2560x1440','2304x1440'])
35
36  #cpu
37  cpu = st.selectbox('CPU',df['Cpu brand'].unique())
38
39  hdd = st.selectbox('HDD(in GB)',[0,128,256,512,1024,2048])
40
41  ssd = st.selectbox('SSD(in GB)',[0,8,128,256,512,1024])
42
43  gpu = st.selectbox('GPU',df['Gpu brand'].unique())
44
45  os = st.selectbox('OS',df['os'].unique())
46
47  if st.button('Predict Price'):
48      # query
49      ppi = None
50      if touchscreen == 'Yes':
51          touchscreen = 1
52      else:
53          touchscreen = 0
54
55      if ips == 'Yes':

```

```
55     ips = 1
56 else:
57     ips = 0
58
59 X_res = int(resolution.split('x')[0])
60 Y_res = int(resolution.split('x')[1])
61 ppi = ((X_res**2) + (Y_res**2))**0.5/screen_size
62 query =
np.array([company,type,ram,weight,touchscreen,ips,ppi,cpu,hdd,ssd,gpu,os],dtype=object)
63
64 query = query.reshape(1,12)
65 st.title("The predicted price of this configuration is " +
66 str(int(np.exp(pipe.predict(query)[0]))))
67
```