```
 1 import streamlit as st
 2 import pandas as pd
 3 import numpy as np
 4 import pickle
 5 import pydeck as pdk
 6
 7 def load_data():
 8     with open('data.pkl', 'rb') as f:
 9         data = pickle.load(f)
10     return data
11
12 data = load_data()
13
14 df = data[['LATITUDE','LONGITUDE']]
15 df = df.rename(columns = {'LATITUDE':'lat'})
16 df = df.rename(columns = {'LONGITUDE':'lon'})
17
18 def show_page1():
19
20     st.markdown('<h2 style = "text-align: center;">
   Map of Historical Home Sales</div>',
   unsafe_allow_html=True)
21
22     st.markdown('<h3 style = "text-align: center;">
   Data points used to create the prediction model</div
   >', unsafe_allow_html=True)
23
24
25     st.pydeck_chart(pdk.Deck(
26         map_style=None,
27         initial_view_state=pdk.ViewState(
28             latitude=33.44,
29             longitude=-112.07,
30             zoom=8.5,
31             pitch=0,
32         ),
33         layers = [
34             pdk.Layer(
35                 'ScatterplotLayer',
36                 data=df,
37                 get_position='[lon, lat]',
```

```
                get_color='[200, 30, 0, 160]',
                get_radius=200,
            ),
        ],
    ))
    st.markdown('<h6 style = "text-align: center;">
   Data points represent sold houses between August 2021
    and January 2023 below $500,000</div>',
   unsafe_allow_html=True)
```