```
import streamlit as st
import pandas as pd
import pickle
from sklearn.ensemble import RandomForestRegressor
# load the trained model
model_path = 'random_forest_model.pkl'
with open(model_path, 'rb') as file:
  model_rf = pickle.load(file)
# Function to predict based on user inputs
def predict_btc_price(input_data):
    # Make prediction using the model
    prediction = model_rf.predict(input_data)
    return prediction[0] #Assuming model returns a single prediction
def main():
  # Title of your web app
  st.title('Predict BTC Close Price')
  # Sidebar for user inputs
  st.sidebar.title('Input Features')
  # Inputs for USDT, BNB closing prices and volumes
  usdt_close = st.sidebar.number_input("USDT Close Price", min_value=0.0, format="%.2f")
  usdt_volume = st.sidebar.number_input('USDT Volume', min_value=0.0, format="%.2f")
  bnb_close = st.sidebar.number_input('BNB Close Price', min_value=0.0, format="%.2f")
  bnb_volume = st.sidebar.number_input('BNB Volume', min_value=0.0, format="%.2f")
```

Create input dataframe

```
input_data = pd.DataFrame({
    'USDT_Close': [usdt_close],
    'USDT_Volume': [usdt_volume],
    'BNB_Close': [bnb_close],
    'BNB_Volume': [bnb_volume]
})

# Button to trigger prediction
if st.button('Predict BTC Close Price'):
    predicted_price = predict_btc_price(input_data)
    st.write('Predicted BTC Close Price:', predicted_price)

if __name__ == '__main__':
    main()
```