```python
import streamlit as st
import pandas as pd
import numpy as np

# --- App Title and Description ---
st.title("My First Streamlit App")
st.write("This is a simple app to demonstrate the basic functionalities of Streamlit.")

# --- Interactive Widgets in the Sidebar ---
st.sidebar.header("User Input Features")

# Text Input
user_name = st.sidebar.text_input("What is your name?", "Priyanka Sulaganti")

# Slider
age = st.sidebar.slider("Select your age", 0, 100, 25)

# Selectbox
favorite_color = st.sidebar.selectbox("What is your favorite color?", ["Blue", "Red", "Green", "Yellow"])

# --- Main Page Content ---
st.header(f"Welcome, {user_name}!")
st.write(f"You are {age} years old and your favorite color is {favorite_color}.")

# --- Displaying Data ---
st.subheader("Here's some random data:")

# Create a sample DataFrame
data = pd.DataFrame(
    np.random.randn(10, 5),
```

```python
27
28     # Create a sample DataFrame
29     data = pd.DataFrame(
30         np.random.randn(10, 5),
31         columns=('col %d' % i for i in range(5))
32     )
33
34     st.dataframe(data)
35
36     # --- Checkbox to show/hide content ---
37     if st.checkbox("Show raw data"):
38         st.subheader("Raw Data")
39         st.write(data)
40
41     # --- Button to trigger an action ---
42     if st.button("Say hello"):
43         st.write("Hello there!")
44     else:
45         st.write("Goodbye")
```

Deploy

Welcome, Priyanka Sulaganti!

You are 32 years old and your favorite color is Blue.

Here's some random data:

User Input Features

What is your name?

Priyanka Sulaganti

Select your age

32

0   100

What is your favorite color?

Blue

	col 0	col 1	col 2	col 3	col 4
0	0.8653	0.5248	-0.4637	1.3818	2.0595
1	0.2537	-1.1759	0.3566	-0.8408	0.0752
2	0.0954	-2.9976	-1.4352	1.1514	-0.489
3	0.526	-0.3504	-0.9965	0.0305	0.9668
4	-0.0955	0.9389	0.6177	1.1025	-0.9523
5	-0.2757	-0.4927	0.6867	-1.1873	1.8136
6	0.5094	-0.1184	1.1685	-1.211	-0.987
7	-0.0543	0.577	1.2411	-1.5856	-0.9621
8	-0.4592	-0.2731	-2.5586	-1.188	0.3835
9	0.6303	-2.9361	0.1516	1.0797	1.3434

Deploy ⋮

☑ Show raw data

Raw Data

	col 0	col 1	col 2	col 3	col 4
0	0.8653	0.5248	-0.4637	1.3818	2.0595
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Say hello

Hello there!

User Input Features

What is your name?

Priyanka Sulaganti

Select your age

32

0   100

What is your favorite color?

Blue ⌄