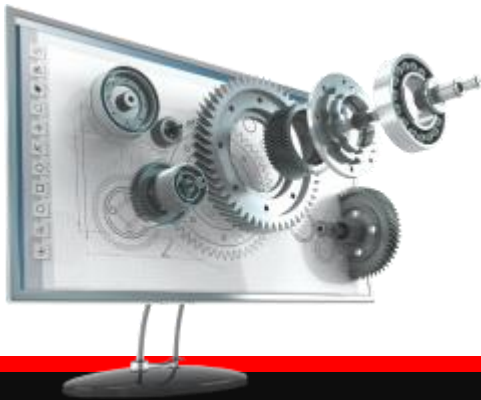




Python for Beginners

Archer Infotech , PUNE





Python – STREAMLIT

What is Streamlit ?



- **Streamlit is an open-source python framework for building web apps for Machine Learning and Data Science.**
- **We can instantly develop web apps and deploy them easily using Streamlit.**
- **Streamlit allows you to write an app the same way you write a python code**

```
pip install streamlit
```



Streamlit



```
streamlit run <yourscript.py>
```

```
import pandas as pd
import streamlit as st

st.title("Welcome to Streamlit!")

st.write("Our first DataFrame")

st.write(
    pd.DataFrame({
        'A': [1, 2, 3, 4],
        'B': [5, 6, 7, 8]
    })
)
```



Streamlit Widgets



```
st.title("Hello ")
```

```
st.header("This is a header")
```

```
st.subheader("This is a subheader")
```

```
st.success("Success")
```

```
st.info("Information")
```

```
st.warning("Warning")
```

```
st.error("Error")
```



Streamlit Widgets



Display Images

```
from PIL import Image
```

```
img = Image.open("streamlit.png")
```

```
st.image(img, width=200)
```



Streamlit Widgets



```
if st.checkbox("Show/Hide"):  
    st.text("Showing the widget")
```

```
status = st.radio("Select Gender: ", ('Male', 'Female'))
```

```
if (status == 'Male'):  
    st.success("Male")  
else:  
    st.success("Female")
```



Streamlit Widgets



multi select box

```
hobbies = st.multiselect("Hobbies: ", ['Dancing', 'Reading', 'Sports'])
```

```
st.write("You selected", len(hobbies), 'hobbies')
```

Selection box

```
hobby = st.selectbox("Hobbies: ", ['Dancing', 'Reading', 'Sports'])
```

```
st.write("Your hobby is: ", hobby)
```



Streamlit Widgets



Create a simple button that does nothing

```
st.button("Click me for no reason")
```

Create a button, that when clicked, shows a text

```
if(st.button("About")):  
    st.text("Welcome To GeeksForGeeks!!!")
```

```
name = st.text_input("Enter Your name", "Type Here ...")  
if(st.button('Submit')):  
    result = name.title()  
    st.success(result)
```



Streamlit Widgets



slider

first argument takes the title of the slider

second argument takes the starting of the slider

last argument takes the end number

```
level = st.slider("Select the level", 1, 5)
```

print the level

format() is used to print value

of a variable at a specific position

```
st.text('Selected: {}'.format(level))
```



Streamlit Widgets



```
import streamlit as st
```

```
st.title("Welcome to Streamlit!")
```

```
selectbox = st.sidebar.selectbox( "Select yes or no", ["Yes", "No"] )
```

```
st.write(f"You selected {selectbox}")
```

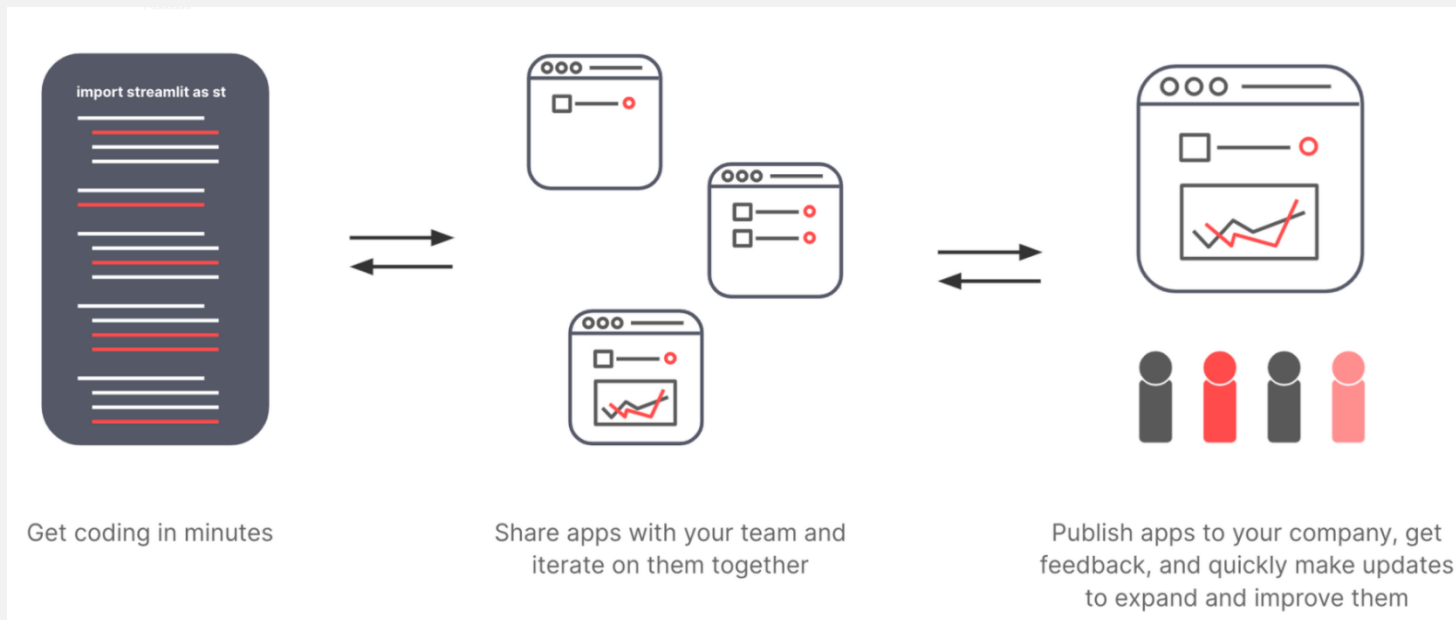


Streamlit Cloud



share.streamlit.io

Pipreqs --force





THANK YOU !!!

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