Library Streamlit

1) What is streamlit:-
It is a python library. It is a fastest way to build & share data apps.

2) main benifit of using streamlit
No need of Html, CSS, JS.
easy to use

3) Technical side of streamlit
In background its uses JS library for using frontend (React a.) and python for backend.

pip install streamlit.

* * * Text utility
- title.

> Startup dashboard
app.py.

>> app.py

import streamlit as st.

Text widget
- title
- header
- subheader
- write.
- markdown
- code
- Latex.

Display Element
- dataframe
- metric
- JSON

display media
-

Run → streamlit run app.py.

— Markdown guide.org | basic-syntax

— overleaf.com/learn/latex/Learn-LaTeX-in-30-min#1-What-is-LaTeX.3A

```
import streamlit as st

Text —
st.title('Startup Dashboard')
st.header('I am Learning Streamlit')
st.subheader('And I'm loving it')
st.write('This is a normal text')
st.markdown("""
### My favourite movie
- Race 3
- Humshakals
- Housefull
""")
st.code("""
def foo(input):
    return input**2
foo(2)
""")
st.latex('x^2 + y^2 + 2 = 0')

Elements
df = pd.DataFrame({
    'name': ['Nitish', 'Ankit', 'Anupam'],
    'marks': [50, 60, 70],
    'package': [10, 12, 14]
})
st.dataframe(df)
st.metric('Revenue', 'Rs 3L', '-3%')
st.json(df)

media
st.image('unnamed.jpg')
st.video('Task 12.mp4')
st.audio('audio.mp3')
```

doc.streamlit.io / library/api-reference

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Creating ~~Side bar~~ layout

- Side bar
- Columns

Showing status

- Progress Bar
- Error message → success

Taking User Input

- Text input → number input → date input
- button → balloons
- dropdown
- file uploader.

dropdown st.selectbox('select gender', ['male', 'Female', 'other'])
st.write(gender)

```
file = st.file_uploader('upload a CSV file')
if file is Not None:
    df = pd.read_csv(file)
    st.dataframe(df.describe())
```

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eating layout

```
st.sidebar.title('sidebar ka title')
col1, col2 = st.columns(2)
with col1:
    st.image('unnamed.jpg')
with col2:
    st.image('unnamed.jpg')
with col3:
    st.image('unnamed.jpg')
```

```
st.error('Login failed')        + info
st.success('Login successfull')  + warning
bar = st.progress(0)
for i in range(1,101):
    time.sleep(0.1)
    bar.progress(i)
```

```
email = st.text_input('Enter email')
number = st.number_input('Enter age')
date date = st.date_input('Enter regis date')
button =
    email = st.text_input('Enter email')
    password = st.text_input('Enter password')

    btn = st.button('Login karo')

    if btn:
        if email == 'nitish@gmail.com' and password
                                        == '1234':
            st.success('Login Successfull')
            st.balloons()
        else:
            st.error('Login Failed')
```