

Project - Using Python & Streamlit to Build A Simple Website

Setup Venv to Create Project

```
-> python -m venv venv
-> venv\Scripts\activate.bat
-> Git Bash: source venv/Scripts/activate
```

Create A New GitHub Repository

[My_Portfolio_Website_Streamlit](#)



- Create Project

- pip install streamlit
- pip install Pillow
- Create `app.py`

```
-> import streamlit as st
```

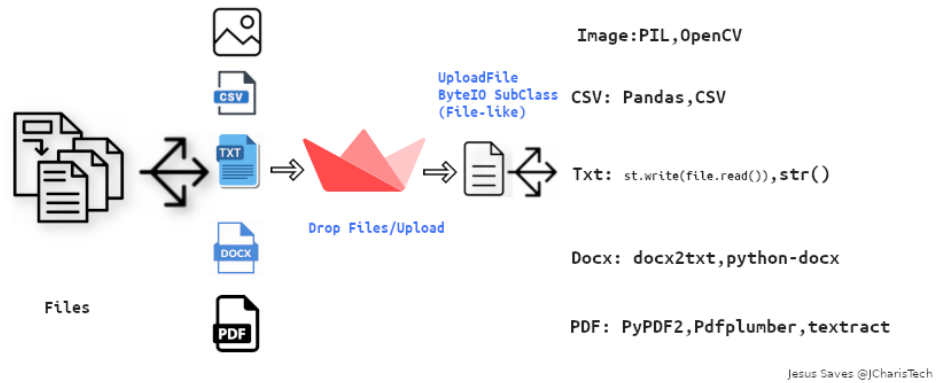
- Integrate Lottie Animations and Load Image Files

- from pathlib import Path
- from PIL import Image
- import requests
- import streamlit as st

[Emoji Website](#)

[Lottie Files](#)

File Upload with Streamlit: A Simple Guide



- Setup Contact Form

[FormSubmit](#)

- Change Theme - Load CSS file

[Creating Custom Themes for Streamlit Apps](#)

- > Create `./streamlit` folder
- > Create `/config.toml`

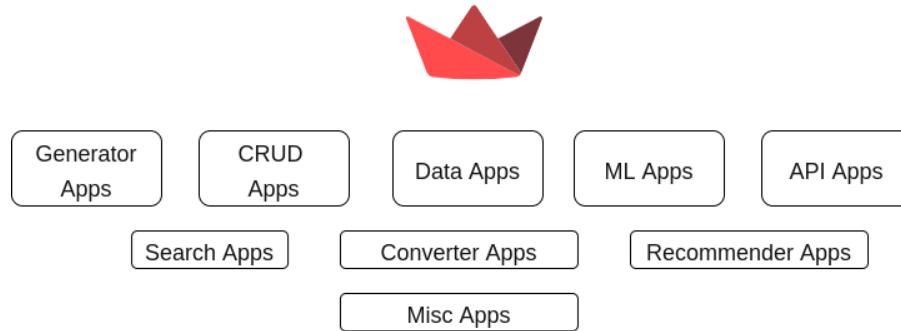
- Deploy to Streamlit App

- Connecting Streamlit app with GitHub

[Streamlit Cloud](#)

Streamlit

Projects



App Workflow



Jesus Saves @JCharisTech

- Python & Streamlit Codes

```

from pathlib import Path
from PIL import Image
import requests
import streamlit as st
from streamlit_lottie import st_lottie

# --- Website Title ---
st.set_page_config(
    page_title="Portfolio",
    page_icon=":sunny:",
    layout="wide",
)

# --- Path Settings ---
current_dir = Path(__file__).parent if "__file__" in locals() else Path.cwd()
css_file = current_dir / "static" / "style.css"
autobiography_file = current_dir / "static" /
"Autobiography_Resume_JainWha.pdf"

```

```

profile_pic = current_dir / "static" / "family_bythesea.jpg"
map_pic = current_dir / "static" / "Self-Learning_Map.jpg"

# --- General Settings ---
NAME = "JainWha Huang"
DESCRIPTION = """
    I am Passionate about Learning and Sharing.
    """
EMAIL = "ericarhuang2021@gmail.com"
SOCAIL_MEDIA = {
    "GitHub": "https://github.com/ericarhuang",
    "FB": "https://www.facebook.com/ericarhuang",
}

# --- Load CSS, PDF, Profile Picture, Animation Assets ---
with open(css_file) as f:
    st.markdown(
        f"<style>{f.read()}</style>",
        unsafe_allow_html=True,
    )

with open(autobiography_file, "rb") as pdf_file:
    PDFbyte = pdf_file.read()
profile_pic = Image.open(profile_pic)

img_learning_map = Image.open(map_pic)

def load_lottieurl(url):
    r = requests.get(url)
    if r.status_code != 200:
        return None
    return r.json()
lottie_animation =
load_lottieurl("https://assets2.lottiefiles.com/private_files/lf30_rnpgzd

# --- Header Section ---
st.header("Copy Learning in Computer Science")

with st.container():
    right_column, middle_column, left_column = st.columns((2, 3,
3))
    with right_column:
        st_lottie(
            lottie_animation,
            height=240,
            key="learning",
        )
    with middle_column:
        st.image(profile_pic, width=380)
    with left_column:
        st.subheader(f"Hi, I am {NAME} :penguin:")
        st.write("I am Passionate about Learning and Sharing.")
        # --- Social Link ---
        for index, (platform, link) in
enumerate(SOCAIL_MEDIA.items()):

```

```

        st.write(f"[{platform}]({link})")
    st.download_button(
        label="Autobiography and Resume",
        data=PDFbyte,
        file_name=autobiography_file.name,
        mime="application/octet-stream",
    )
    st.write(":e-mail:", EMAIL)

# --- Main Section ---
with st.container():
    st.write("----")
    st.header("What I Learn")
    st.markdown("[:earth_asia:Welcome to My Copy Learning Website  
to Find the Memos and Projects]  
(https://ericarhuang.github.io/My_Copy_Learning/)")

    left_column, right_column = st.columns((2, 3))
    with left_column:
        st.image(img_learning_map, width=420)
    with right_column:
        st.write("""
            - C, C++, Python, Data Structure and Algorithm
            - Machine Learning: Scilit-Learn, TensorFlow, Pytorch,
and Computer Vision
            - Data Analysis: Numpy, Pandas, Web Scraping, and
Power BI
            - Data Visulization: Matplotlib, Seaborn, and Plotly
            - Web Application: Django, Flask, FastAPI, HTML, CSS,
JavaScript, React, Node, and Express
            - Database and Cloud: MySQL, Postgres, and AWS
            - CI/CD: Github Version Control, GitHub Actions, and
Doccker Deployment
            - Gaming: Pygame
            - COA, Networking, CyberSecurity, and Opeation System
            """)
    )

# --- CONTACT ---
with st.container():
    st.write("----")
    st.header("Get in Touch")
    contact_form = """
    <form
    action="https://formsubmit.co/ericarhuang2021@gmail.com"
    method="POST">
        <input type="text" name="name" placeholder="Your name"
required>
        <input type="email" name="email" placeholder="Your email"
required>
        <textarea name="message" placeholder="Your Massages...">
</textarea>
        <button type="submit">Send</button>
    </form>
    """

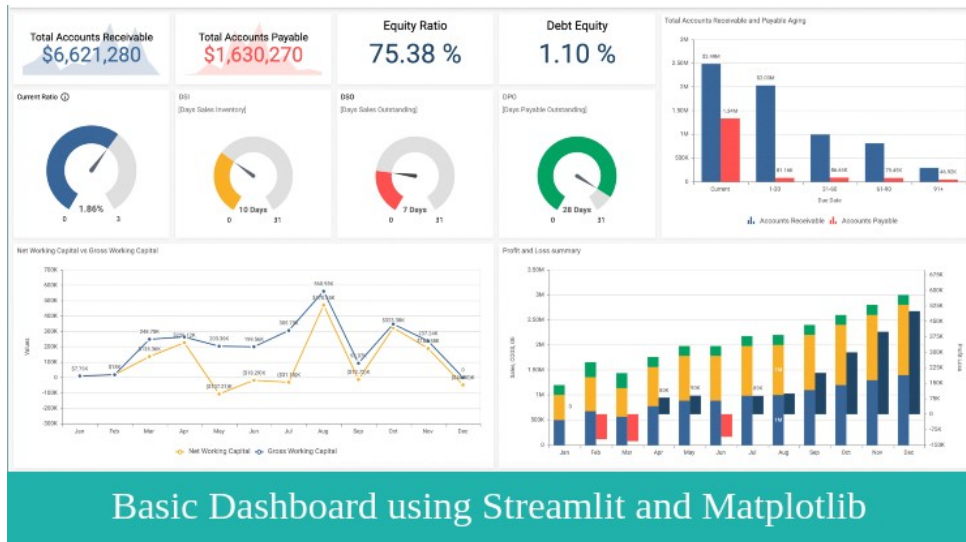
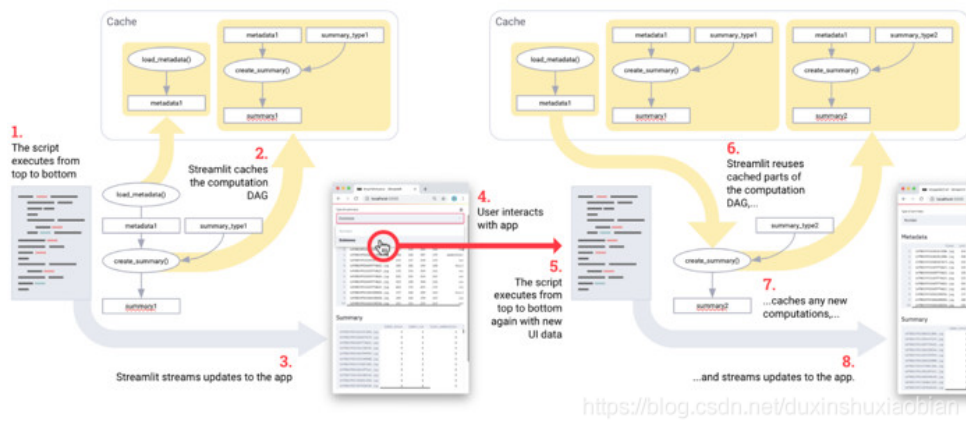
```

```

left_column, right_column = st.columns(2)
with left_column:
    st.markdown(contact_form, unsafe_allow_html=True)
with right_column:
    st.empty()
    
```

Future Plans

- Integrate Streamlit with Data Analysis



-- Project End --