**Streamlit with GitHub**

1. **On cmd:**

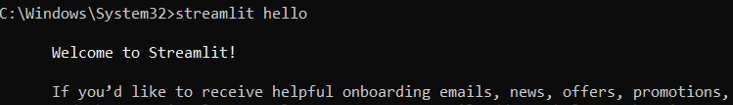
**pip install streamlit**

**A screen shot of a computer code

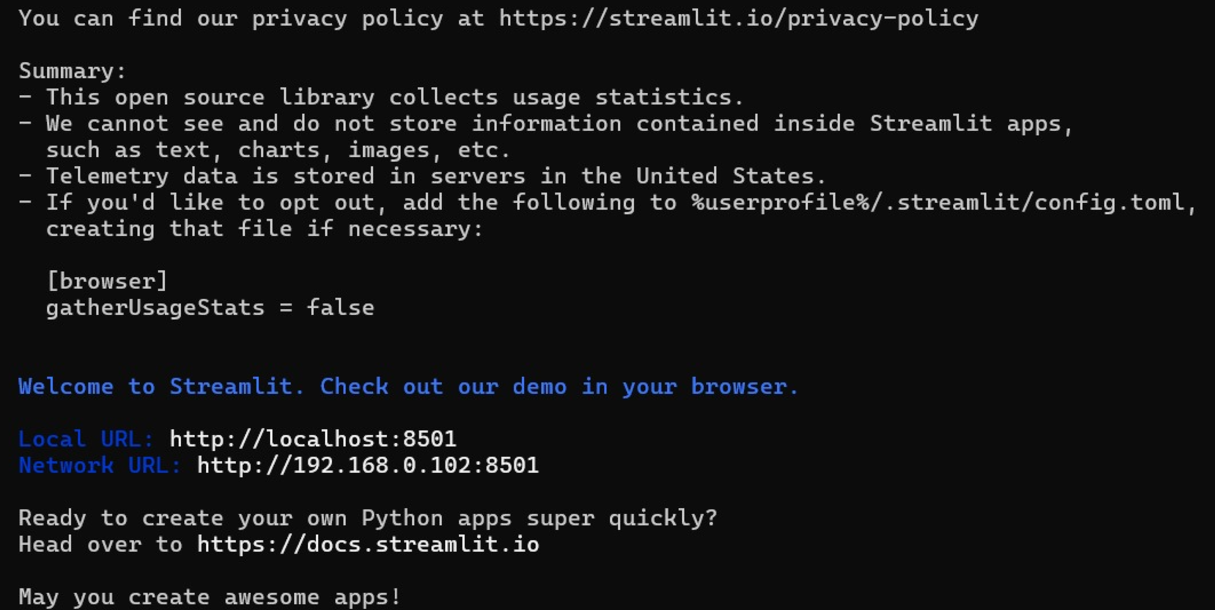
Description automatically generated**

1. **Check if its installed or not**

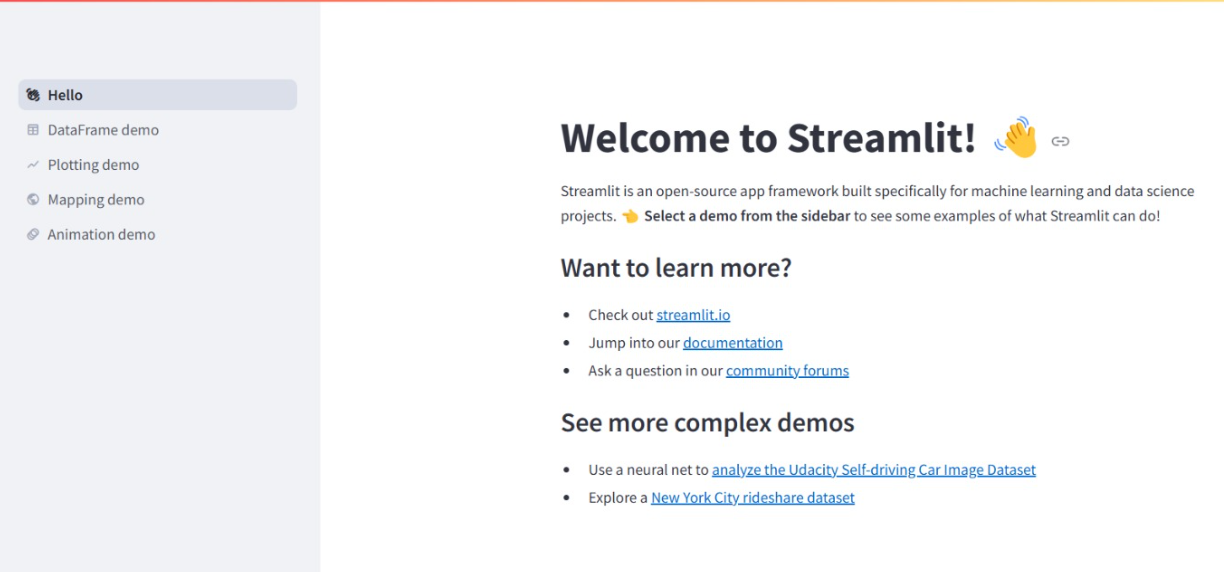
**Cmd: streamlit hello**

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**This should be appeared:**

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1. **Streamlit hello page**

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1. **Create a folder eg: devopsdemo go inside this folder in cmd**
2. **Then**

**Cmd to install venv(virtual environmnet) : python -m venv myenv**

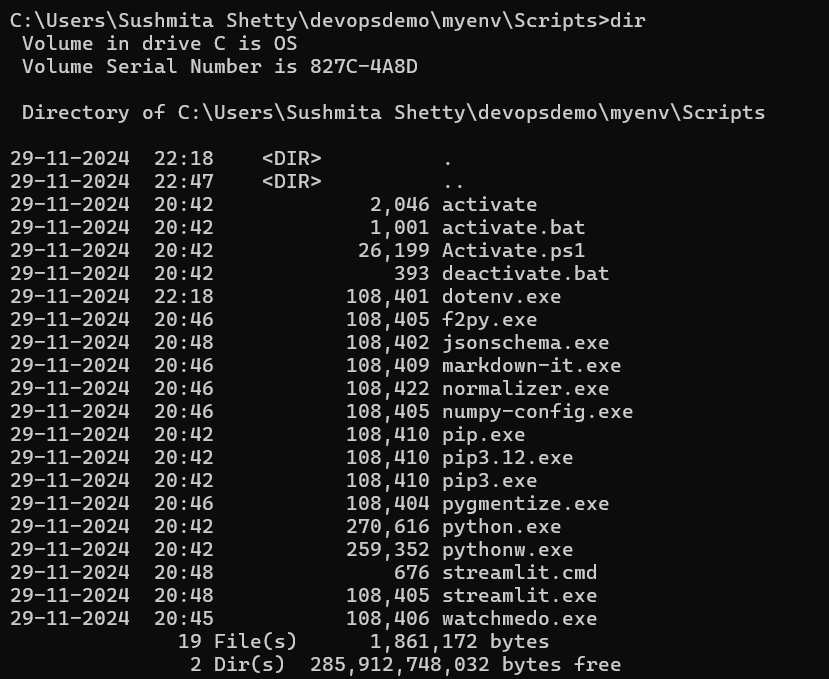
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1. **Navigate to scripts in cmd : cd scripts**

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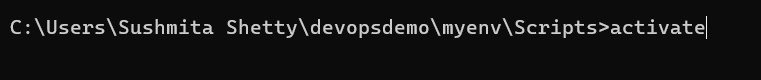
1. **Check the directory**

**Cmd: dir**

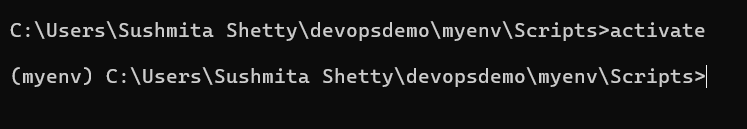
****

1. **Activate the streamlit environment:**

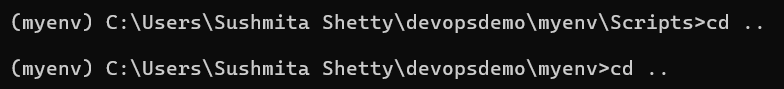
**Cmd: activate**

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1. **Run activate**

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1. **Now get out of the scripts 🡪 cd ..**

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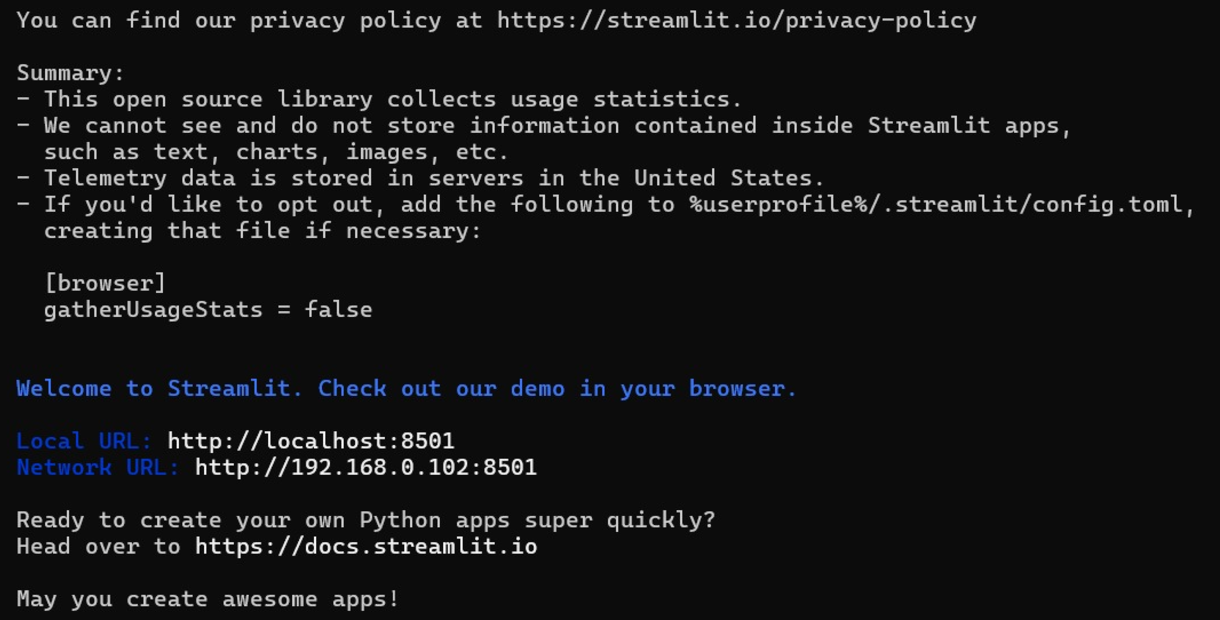
1. **And run the cmd: pip install streamlit**

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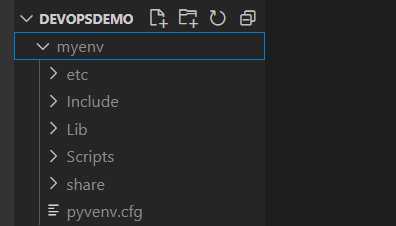
**A screenshot of a computer program

Description automatically generated**

1. **To verify run cmd : streamlit hello**

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1. **Now go to vs code open the folder i.e demodevops which contains the myenv**

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1. **Create a new file app.py in the folder**
2. **Go to the** [**https://docs.streamlit.io/**](https://docs.streamlit.io/)
3. **Go to** [**https://docs.streamlit.io/get-started/tutorials/create-an-app**](https://docs.streamlit.io/get-started/tutorials/create-an-app)
4. **Create a title page within app.js**

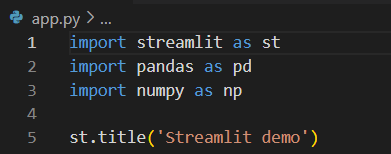
**Code:**

import streamlit as st

import pandas as pd

import numpy as np

st.title('Streamlit demo')

****

1. **Go to cmd :**

**streamlit run app.py**

**A screenshot of a computer

Description automatically generated**

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1. **Output**

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1. **Now you can refer multiple code snippet available in document to create a app eg:**

**Take input from user and display:**

**Code:**

import streamlit as st

import pandas as pd

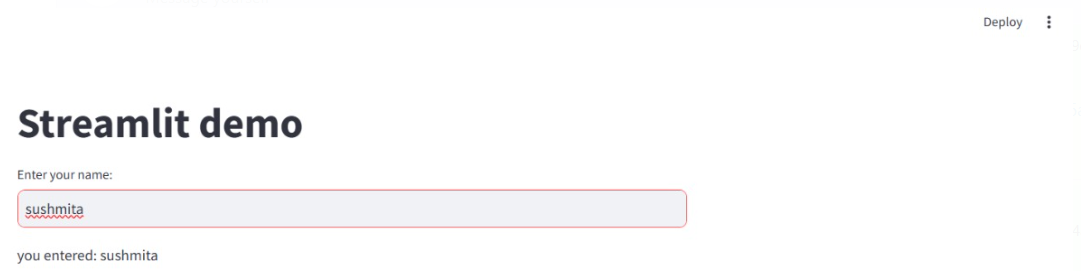
import numpy as np

st.title('Streamlit demo')

name =st.text\_input('Enter your name: ')

st.write("you entered:" , name)

**rerun in streamlit :**

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**Create df etc :**

import streamlit as st

import pandas as pd

import numpy as np

st.title('Streamlit demo')

st.write("Here's our first attempt at using data to create a table:")

st.write(pd.DataFrame({

    'first column': [1, 2, 3, 4],

    'second column': [10, 20, 30, 40]

}))

**rerun**

****

**Create a plot:**

**Code:**

import streamlit as st

import pandas as pd

import numpy as np

st.title('Streamlit demo')

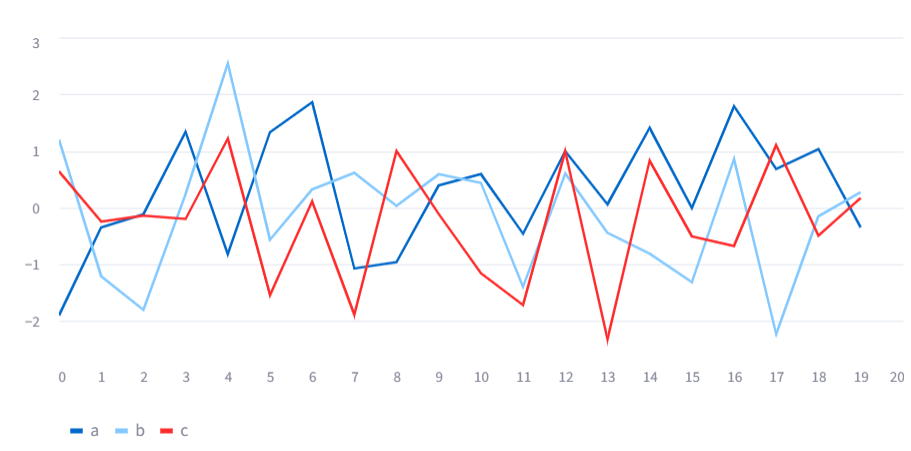
chart\_data = pd.DataFrame(

     np.random.randn(20, 3),

     columns=['a', 'b', 'c'])

st.line\_chart(chart\_data)

**rerun**

****

**Create a table**

**Code:**

import streamlit as st

import pandas as pd

import numpy as np

st.title('Streamlit demo')

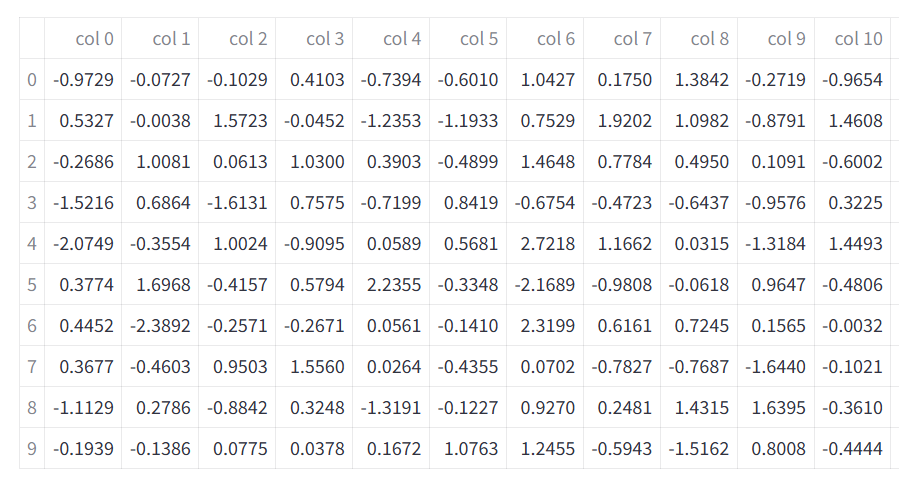
dataframe = pd.DataFrame(

    np.random.randn(10, 20),

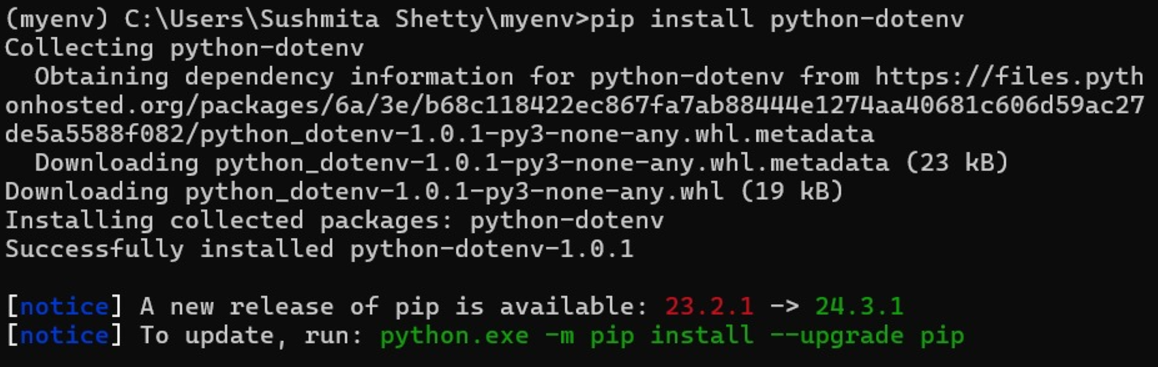
    columns=('col %d' % i for i in range(20)))

st.table(dataframe)

**rerun**

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1. **Create a .env file in our environment outside myenv but within folder**
2. **On cmd run: pip install python-dotenv**

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**Push your code to github**

1. **Create .gitignore file**

**(outside the myenv )**

**Content:**

#.gitignore

# Ignore the virtual environment folder

myenv/

env/

# Ignore Python cache files

\_pycache\_/

\*.py[cod]

\*.pyo

# Ignore system files

.DS\_Store

Thumbs.db

# Ignore IDE/editor-specific files

.vscode/

.idea/

\*.sublime-workspace

\*.sublime-project

# Ignore logs and temporary files

\*.log

\*.tmp

# Ignore configuration files and secrets

.env

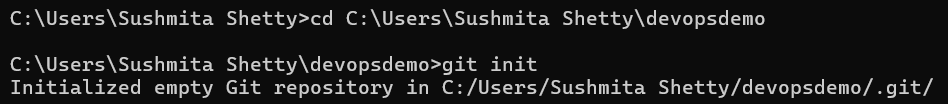
# Ignore Jupyter Notebook checkpoints (if applicable)

.ipynb\_checkpoints/

# Ignore compiled Python files

\*.pyc

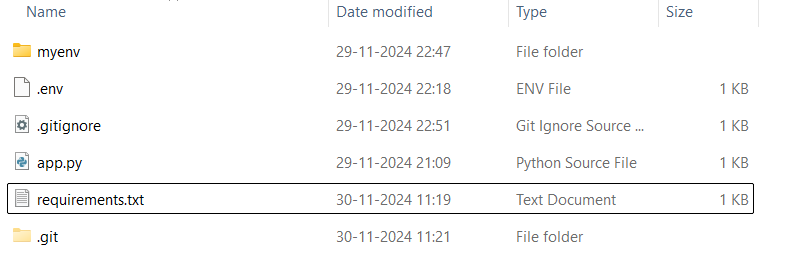
1. **Initialize a repository in github**
2. **Initaialize a repo outside of myenv but within the folder cmd: git init**

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1. **Create a requirement.txt**

**Cmd:**

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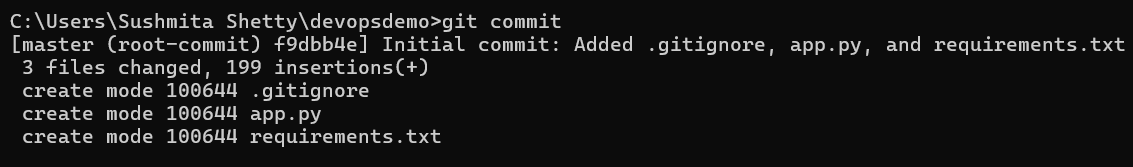
****

1. **Now cmd: git add .**

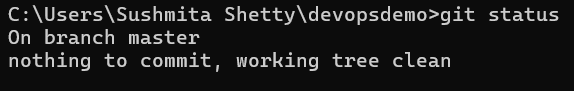
****

1. **Check the status: git commit**

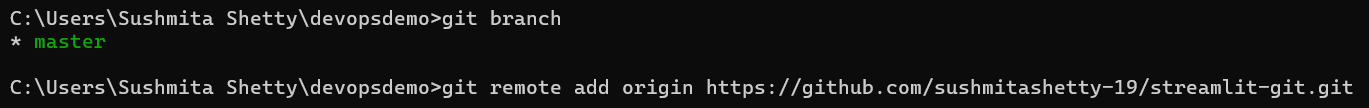
**Write: Initial commit: Added .gitignore, app.py, and requirements.txt**

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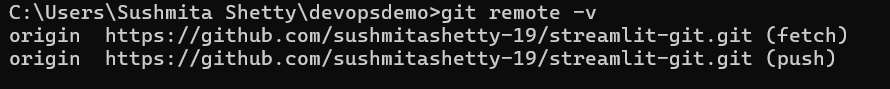
1. **Cmd: git status**

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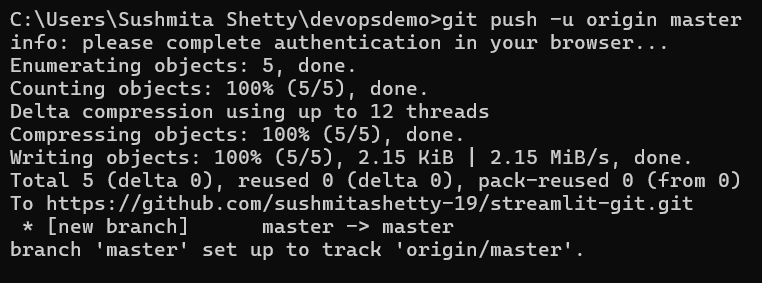
1. **Create a new githut repo**
2. **Copy the url**
3. **Connent to your repo : git remote add origin** [**https://github.com/sushmitashetty-19/streamlit-git.git**](https://github.com/sushmitashetty-19/streamlit-git.git)

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1. **Verify: git remote -v**

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1. **Push your file : git push -u origin master**

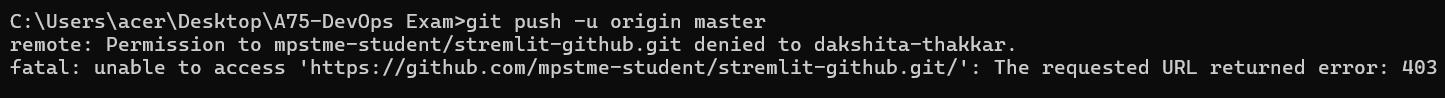
****

1. **While pushing or after pushing the error that you may encounter are:**

**First:**

During pushing, Git might throw a Permissions Denied Error

git push -u origin master

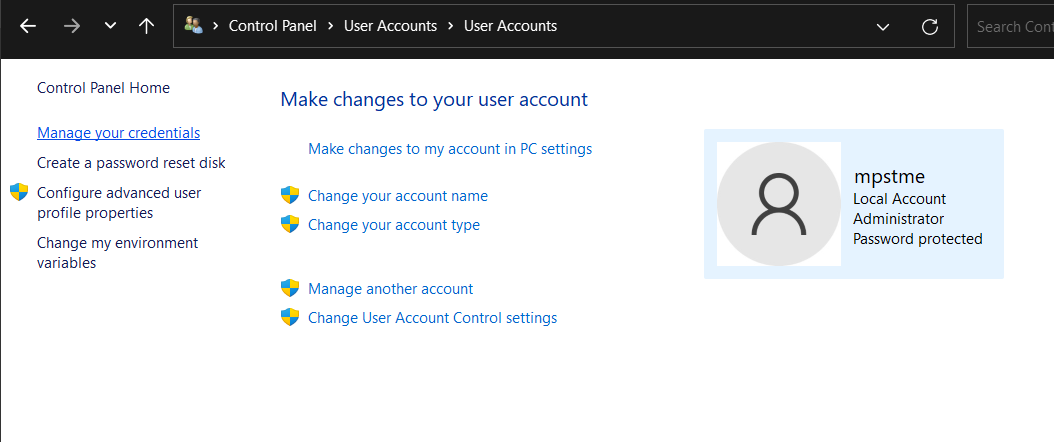


Run: git credential-manager clear

A screenshot of a computer program

Description automatically generated

Go To Control Panel>User Accounts>User Accounts>Manage Credentials



A screenshot of a computer

Description automatically generated

Remove your GitHub credentials

Push your files again: git push -u origin master

**Second:**

**After push you might get error in streamlit app for compatibility**

**To solve jush change the requirement.txt file:**

altair==5.5.0

attrs==24.2.0

blinker==1.9.0

cachetools==5.5.0

certifi==2024.8.30

charset-normalizer==3.4.0

click==8.1.7

colorama==0.4.6

gitdb==4.0.11

GitPython==3.1.43

idna==3.10

Jinja2==3.1.4

jsonschema==4.23.0

jsonschema-specifications==2024.10.1

markdown-it-py==3.0.0

MarkupSafe==3.0.2

mdurl==0.1.2

narwhals==1.14.3

numpy==2.1.3

packaging==24.2

pandas==2.2.3

pillow==11.0.0

protobuf==5.29.0

pyarrow==18.1.0

pydeck==0.9.1

Pygments==2.18.0

python-dateutil==2.9.0.post0

python-dotenv==1.0.1

pytz==2024.2

referencing==0.35.1

requests==2.32.3

rich==13.9.4

rpds-py==0.21.0

six==1.16.0

smmap==5.0.1

streamlit==1.40.2

tenacity==9.0.0

toml==0.10.2

tornado==6.4.2

typing\_extensions==4.12.2

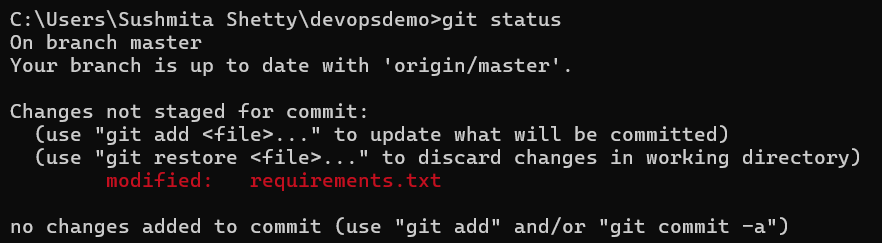
tzdata==2024.2

urllib3==2.2.3

watchdog==6.0.0

**save the new file and then on cmd check the status:**

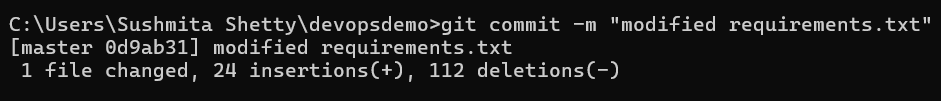
**cmd: git status**

****

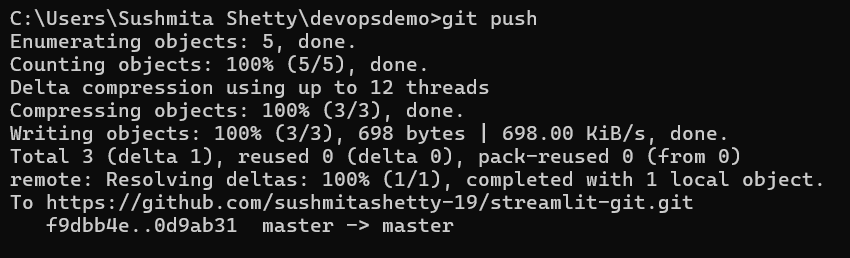
**Cmd: git add requiments.txt**

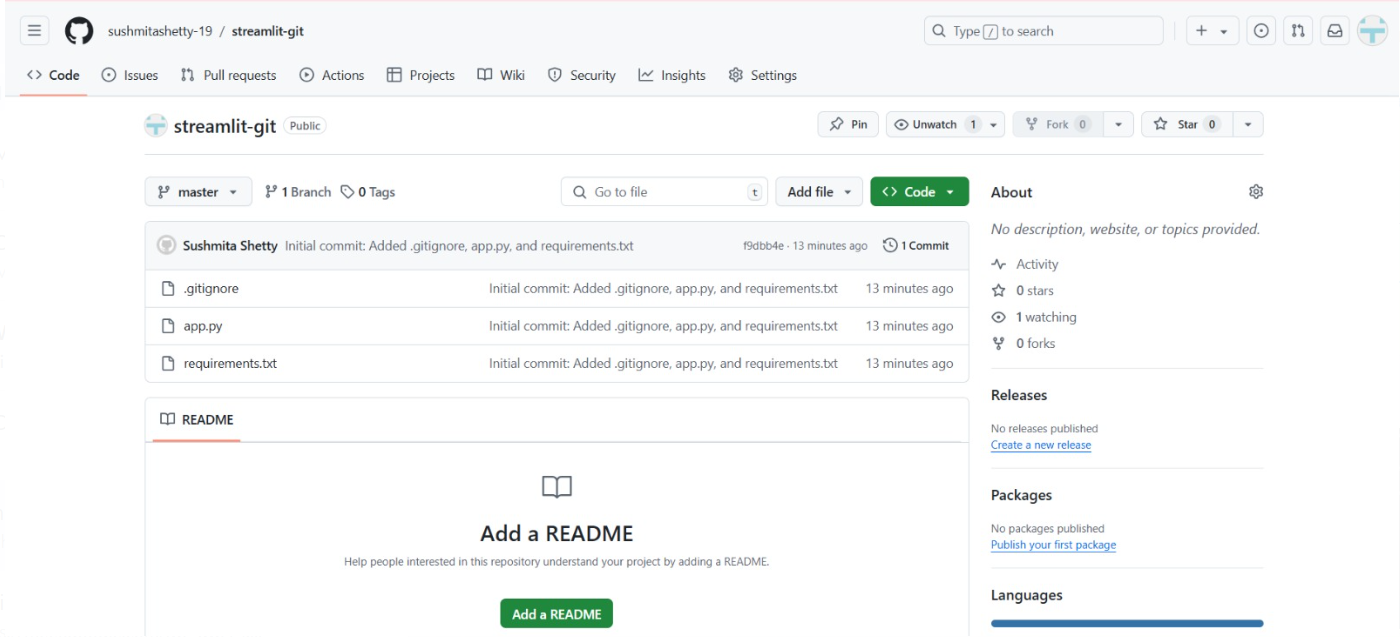
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**Cmd: git commit -m "modified requirements.txt"**

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**Now just write cmd: git push**

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**Done successfully push the repo**

**Deploying app on the streamlit cloud**

1. **Go to Stramlit Community Cloud-> Login using GitHub**

**A screenshot of a computer

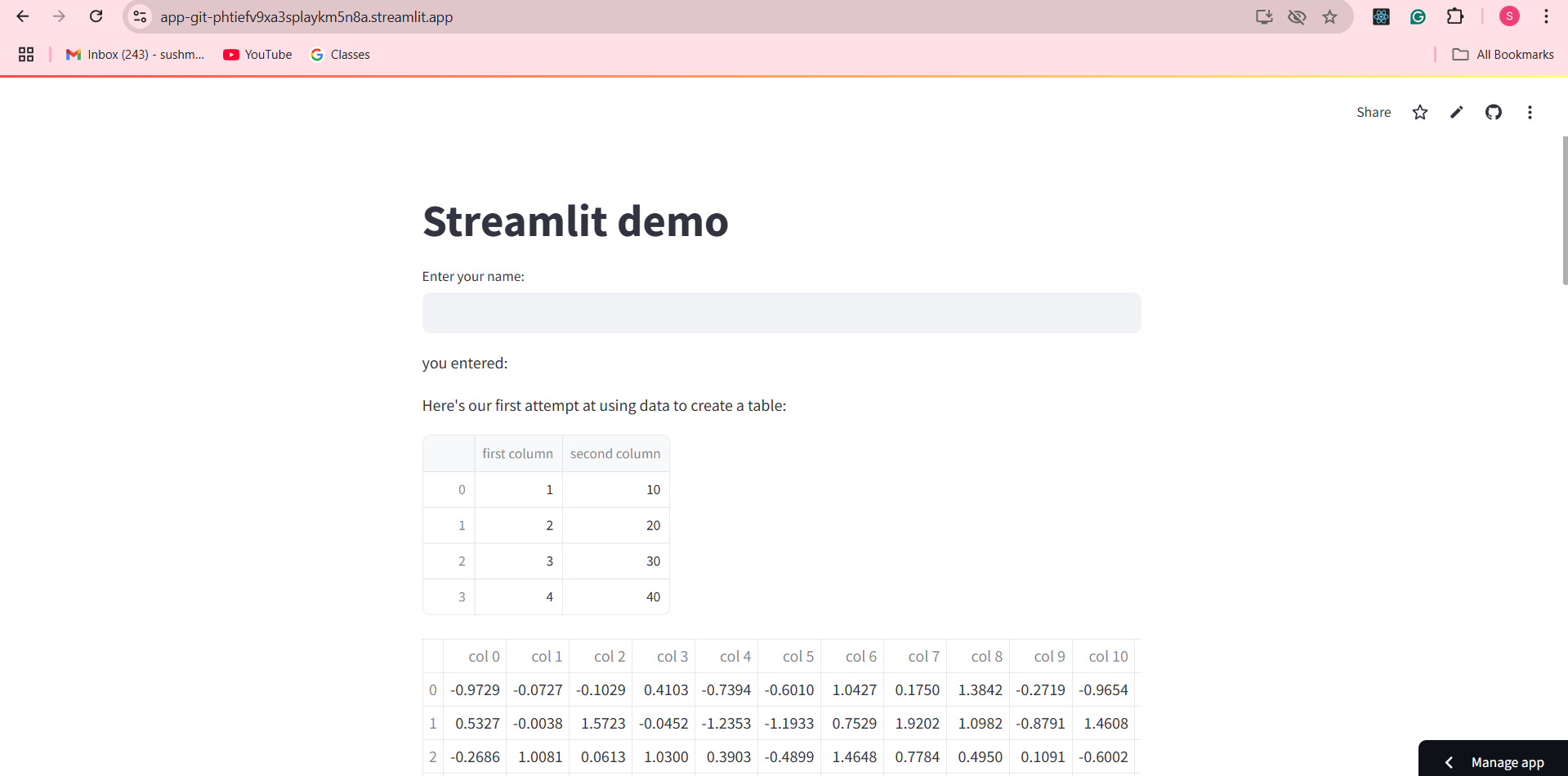
Description automatically generated**

1. **Deploy App**

**A screenshot of a computer

Description automatically generated**

**Deploy Your Streamlit App on Streamlit Cloud:**

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