**Initial Streamlit App creation and deployment**

**1.Install Streamlit and associated libraries (if not already done):**

First, make sure you have Streamlit installed in your environment.

* pip install streamlit --upgrade
* pip install scikit-learn==1.3.2
* pip install keras
* pip install tensorflow

**2. Create a Streamlit App:**

Create a Python script (app\_1.py). Write the code to load your model and build the web interface.

**3. Save Your Trained Model:**

Ensure that your trained model is saved on google drive using pickle – this should be done in the code that is creating the model.

#Mount Google Drive to save models – this should be at the top and called once to mount the Google Drive. It will ask you to confirm access to your Google Drive when run

from google.colab import drive

drive.mount('/content/drive')

# The following saves a model. In the example below it saves a model with the name xgb\_model to the file xgboost\_model.sav in a subfolder called Models

filename = '/content/drive/My Drive/Models/xgboost\_model.sav'

pickle.dump(xgb\_model, open(filename, 'wb'))

**4. Download model from google drive on to local drive.**

Save the models to a subfolder called models relative to the streamlit app

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**5. Run the Streamlit App:**

To run your Streamlit app, use the following command in your terminal.

You will need to provide the full path to the app\_1.py. To get the full path, find the app\_1.py in Windows Explorer and do SHIFT+Right Mouse click on the app\_1.py and select “Copy as Path”

streamlit run <<Replace with full path to **app\_1.py>>**

**6. Access the Streamlit App from your Browser via the URL:** [**http://localhost:8501/**](http://localhost:8501/) **:**

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**Streamlit App Deployment**

**1. Install Streamlit and associated libraries (if not already done):**

First, make sure you have Streamlit and associated libraries installed in your environment.

* pip install streamlit --upgrade
* pip install scikit-learn==1.3.2
* pip install keras
* pip install tensorflow

**2. Download the Streamlit app (app\_1.py) from GitHub and the subfolder “Models” onto your local computer. App and Folder Struture should be as follows:**

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**3. Run the Streamlit App:**

To run your Streamlit app, use the following command in your terminal.

You will need to provide the full path to the app\_1.py. To get the full path, find the app\_1.py in Windows Explorer and do SHIFT+Right Mouse click on the app\_1.py and select “Copy as Path”

streamlit run <<Replace with full path to **app\_1.py>>**

**4. Access the Streamlit App from your Browser via the URL:** [**http://localhost:8501/**](http://localhost:8501/) **:**

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