STEPS for flask App deployment.

* Get the flask project from <https://github.com/CBIIT/nci-doe-data-sharing/tree/v1.8/flaskProject>
* Add the service account passwords in infer.py and app.py
* Install anaconda for environment management
* Installed version 4.9.2
* Download anaconda from <https://www.anaconda.com/products/individual>
* This is not directory specific. Can be installed anywhere
* cd to flaskProject
* From the terminal, create an environment using the following command

*conda create --name <env-name> python=3.6*

* Activate the environment using the following

*conda activate <env-name>*

* Install Pip version 20.2.4 if it doesn`t exist.
* Make sure the requirements.txt exists in the current directory before running the following command:
* *pip install -r requirements.txt*
* *This requirements.txt is specific to mt\_cnn project. It’s likely to change in the future.*
* Run the flask app using

*python app.py*

then the following message appears

\* Tip: There are .env or .flaskenv files present. Do "pip install python-dotenv" to use them.

\* Serving Flask app "application" (lazy loading)

\* Environment: production

WARNING: This is a development server. Do not use it in a production deployment.

Use a production WSGI server instead.

\* Debug mode: off

\* Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)

* To access the flask webservice from the browser

<http://127.0.0.1:5000/modac-routing?resultFileName=y_pred.csv>

* If the browser returns “OK” the y\_pred.cv is downloaded to mount location and the file can be seen in the current directory also.
* Currently, the model which is being used is mt\_cnn\_model.h5 and the testdataset is text\_X.npy which can be found in the GitHub flask Project. So, it’s using these constant files. In real time, the actual URL will be

<http://127.0.0.1:5000/modac-routing?resultFileName=y_pred.csv&&dataFileName=test_X.npy&&modelName=mt_cnn_model.h5>

* The above command is to run from local. When the flask app is deployed on MoDaC server, the app.py file will be running on MoDaC server. The infer.py will run on Batch cluster.