**Details of Demonstration**

1. Navigate to the directory (streamlit\_app) where the Dockerfile and app\_code.py is

2. *docker build -t carparkfinal:latest .*

3. *docker run --gpus all -p 8501:8501 carparkfinal:latest*

4. Open the streamlit app by typing in the browser http://localhost:8501

In the streamlit app, for the demonstration

1. Navigate to the last Demo page

2. Select dataset

3. Select model

4. Upload data file

Data files are all located at Demo Files

For Seq2Seq model, open Demo Files/Seq2Seq. SFpark\_test\_dataset.pt is for San Francisco. Nottingham\_demo\_dataset.pt, Nottingham\_test\_dataset.pt is for Nottingham. Test\_dataset refers to the data used to generate the results in each of the model pages. Demo\_dataset is a new data used for demo purposes.

For DCRNN model, open Demo Files/DCRNN. Test\_san\_francisco\_dcrnn.npz is for San Francisco. Demo\_nottingham\_dcrnn.npz, test\_nottingham\_dcrnn.npz is for Nottingham. Test\_dataset refers to the data used to generate the results in each of the model pages. Demo\_dataset is a new data used for demo purposes.

For GTS model, open Demo Files/GTS. Test\_san\_francisco\_gts.npz is for San Francisco. Demo\_nottingham\_gts.npz, test\_nottingham\_gts.npz is for Nottingham. Test\_dataset refers to the data used to generate the results in each of the model pages. Demo\_dataset is a new data used for demo purposes.

\*\*Note\*\* (If limited memory on system) San Francisco data is large in size and thus to avoid out of memory error, restart the docker container after each model. The steps to restart the container is as follows.

1. Find out {container name} from *docker container ls*
2. *docker container stop {container name}*
3. Close the window
4. *docker container start {container name}*
5. Open the window again and continue