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**Contents**:

1. Project Emerging Tech 2019 Folder (contains project)
2. Class Tutorial Folder (contains class video files)
3. Readme file (details how to run project)
4. Research file (with details of all links researched)

**Very important Before you run any file:**

. Tensorflow and scipy version were not stable hence, old version are used. Please use following commands

TensorFlow Details:

. To uninstall tensorflow: pip uninstall tensorflow

To install old version use: pip install tensorflow==1.13.1

Scipy Details:

. To uninstall scipy: pip uninstall scipy

To install old version use: pip install scipy==1.2

**How to Train Model MNIST:**

***FROM COMMAND PROMPT:***

run the file with command (python train.py) from directory \model. This will create the json and h5 files.

***FROM COMMAND JUPYTER NOTEBOOK:***

Go to the project folder Project Emerging Tech 2019 and type command jupyter notebook. This will start the jupyter notebook in browser. Click on model directory and click on train.ipynb file. In the cell press shift Enter to run the file.

**How to Run Flask and Python App:**

***FROM COMMAND PROMPT:***

run the file with command (python app.py) from directory \model. This will start the server and the link to <https://127.0.0.1:5000> can be copy pasted in browser to see the app.

***FROM COMMAND JUPYTER NOTEBOOK:***

Go to the project folder Project Emerging Tech 2019 and type command jupyter notebook. This will start the jupyter notebook in browser. Click on click on app.ipynb file. In the cell press shift Enter to run the app. This will start the server and the link to <https://127.0.0.1:5000> can be copy pasted in browser to see the app.