Execution of LSTM\_MVAE:

1. Execute: python <Name of the script file>

The script files are: MVAE\_Mamography.py

MVAE\_NSLKDD\_attack\_1\_Mixing.py

MVAE\_Pendigit.py

MVAE\_Shuttle.py

**Comparison with OmniAnomaly:**

Generate the .txt dataset for Mammography:

1. Execute the Data\_Prepare.py under the folder OmniAnomaly\_Mamography\_Dataset
2. It will generate 3 txt files: MamoTest-1-1.txt, MamoTestLabel-1-1.txt, MamoTrain-1-1.txt
3. Move those files into test, test\_label, train folders, respectively.
4. Rename all these files in their respective folders as Mamo-1-1.txt

Generate the .pkl files from the .txt files for processing by the OmniAnomaly Python codes

1. Download and Setup environment for the OmniAnomaly codes from <https://github.com/smallcowbaby/OmniAnomaly>
2. Copy and Paste the utility file : OmniAnomaly\_Utils\_Mammo.py into the utility folder of “omni\_anomaly”
3. Execute “python OmniAnomaly\_Data\_Preprocess\_Mamo.py mamo”

Outcome: the resultant .pkl will be generated into some user given folders.

Final execution of evaluation: “python OmniAnomaly\_Main\_Mamo.py”