

As part of preprocessing the noise in the form of horizontal lines and dots have been removed. This has been incorporated as part of the train function.

Command to retrieve data:

```
python3 GetFilesFromServer.py
```

Command to Generate Data:

```
python ./generate.py --width 128 --height 64 --length 6 --symbols symbols_generate.txt --count 128000 --output-dir train
```

Command to Train Model

```
python train.py --width 128 --height 64 --length 6 --symbols symbols.txt --batch-size 32 --epochs 5 --output-model model_ms --train-dataset train --validate-dataset val
```

Command to Convert TensorFlow model to Tflite model

```
python LiteConverter.py --inputModel model --outputLiteModel model
```

Command to Classify model on pi

```
python3 ClassifyForLite.py --model-name model --captcha-dir ./imglist/ --output ./preprocess-v20.csv --symbols symbols.txt
```