**Parent Repo -** [**https://github.com/Holmeyoung/crnn-pytorch**](https://github.com/Holmeyoung/crnn-pytorch)

**Cecilia Repo -** [**https://github.com/cclia19/crnn**](https://github.com/cclia19/crnn)

**Adding new python file to print model architecture - printArchitecture.py**

*from torchinfo import summary*

*summary(crnn, input\_size=(16, 1, 32, 100))*

**Graphical user interface, text, application

Description automatically generated**

**Adding code in train.py for checkpointing**

**- save all the trained model path**

**- only save the trained model path with improved accuracy**

**A picture containing text

Description automatically generated**

**Modification in params.py**

*keep\_ratio = False (standardized input image width); keep\_ratio = True (varied input image width)*

*increase imgW value for image with longer text*

**Text

Description automatically generated**

**Tools to rename image file -** [**https://www.advancedrenamer.com/**](https://www.advancedrenamer.com/)

1. **from raw dataset to repo naming format **

**(to create lmdb dataset for training)**

*eg. 20150922\_155355.232264\_2\_BMM9800.jpg -> BMM9800\_0907.jpg*

Graphical user interface, table

Description automatically generated

1. **from repo naming format to clean filename**

**(to create new dataset from existing dataset)**

*eg. BMM9800\_0907.jpg -> BMM9800.jpg*

Graphical user interface, application

Description automatically generated

**To concatenate same carplate image**

**White text on a black background

Description automatically generated**

**Graphical user interface, text, application

Description automatically generated**

**To concatenate mix carplate image**

**White text on a black background

Description automatically generated**

**Cecilia method – first copy all image file path to a text file, then shuffle the text file, finally read image from the shuffled text file**

**Graphical user interface, text, application

Description automatically generated**

**Sean method – first create a shuffled number list, then read image from the image list according to the shuffled number**

**A picture containing text, electronics, computer, keyboard

Description automatically generated**