# System:

Pycharm-community-2019.3.2

Anaconda3-2019.10-Windows-x64\_64

Keras 2.2.4

Tensorflow2.0.0

Downgrade to Python 3.6.10

# Utility Module for Pre-processing data

More generic class to load data and clean before fitting

# Training Model

Build->compile->fit

Future override improvement:

* Batch normalization,
* dropout,
* transfer model reuse resNet
* hyperparameter tune using cross validation
* load parameter from config file rather than hardcode

# Predicting Model

Test data should be applied through Pre-process model too before applying model to predict

# Evaluation

Future override

* define summary stats
* plot loss while training

# Run

Run Program.py in the Source folder, make sure to change directory for both the image\_directory\_test and image\_directory\_test