Findings:

* Batch sizes over 25 seem to indicate overfitting with loss increasing after epoch 25. (See v001)
* 64x64 does not result in any noticeable lower accuracy over 128x128. So I stick with 64x64 for a fair comparison with DCGAN.
* I tried using Stochastic Gradient Descent (SDG) as optimizer. However, performance decreased with 2% when using it.
* ReLU improve true positive rate over LeakyReLU
* cnn-kaggle-v021 is benchmark model, same as cnn-kaggle-v020 and cnn-kaggle-v019
* cnn-local-v022 & v023 & v024 is with CGAN data to compare performance

Versions:

001: uses rgb and a large batch size of 200, activation = relu.

002: uses grayscale and a batch size of 25, activation = relu.

003: uses grayscale and a batch size of 25, activation = relu.

Variance:

* Grayscale, batch size=25, activation=relu – v002,003,004:
  + Multi-Acc: 9525-9530
  + TPR: 9716-9806
  + Acc: 9812-9838
  + F1: 9824-9847
  + MCC: 9623-9675
* Grayscale, batch size=25, activation=leakyrelu – v005,006,007:
  + Multi-Acc: 9493-9503
  + TPR: 9778-9841
  + Acc: 9809-9838
  + F1: 9822-9844
  + MCC: 9616-9678