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Syn Challenge Paragraph

Instead of using the default given tree classifier, I instead used a tensorflow convolution neural network. The base code and corresponding tutorial was found online, license included in my notebook. However, a variety of modifications were needed to make it work with Will’s data and to modify certain portions of the algorithm. It originally had some unknown method to iterate through test and validation portions of the data. Rather than use their outside libraries, I instead randomly selected portions of the training data to use. There also seemed to be an issue with the prediction portion of the code when run through docker. Every attempt resulted in a kernel crash. So, I had to work locally which did not result in the kernel crash. The only change that had to be made was to manually “pip install” tensorflow. With this tensorflow classification, I was able to obtain an f1 score of 0.87.