Deliverable 3

Final Training Result

For my final training, I got a validation accuracy of 0.87 and a training accuracy of 0.90. Compared to my preliminary results, it is a little bit better. I have changed the size of my images from (512,512,3) to (128,128,3). The previous size took a very long to train, and it was very time consuming and inefficient. Moreover, I did data augmentation on my dataset as it would help improve the accuracy of the model on new data since it feeds more different images to the model. Therefore, the model can learn new different weights in order to classify the input images.

Poster Presentation

For my final product, I will be showing a poster to present in detail the process of the implementation of my model. I will be talking about the image data augmentation part and how it helped was very helpful to achieve my goal. Moreover, I will talk about what I learned while doing my project. For example, how to use a pretrained model and do transfer learning with it or how image data augmentation helps increase the accuracy of the model. I think that in machine learning, the implementation is not hard but the process of learning and understanding how to implement those models is what makes the problem hard to solve. Therefore, reading a lot of articles and research paper have helped me a lot in this process. Furthermore, I will finalize my presentation by stating the areas where my model can come to use. My model may come to use in the field of medicine as it can predict the severity of a disease. Hence, it can help doctors save time when consulting a patient and it might also detect some symptoms that the doctor cannot detect with human eyes. Additionally, it can be of use with detecting other type of disease.