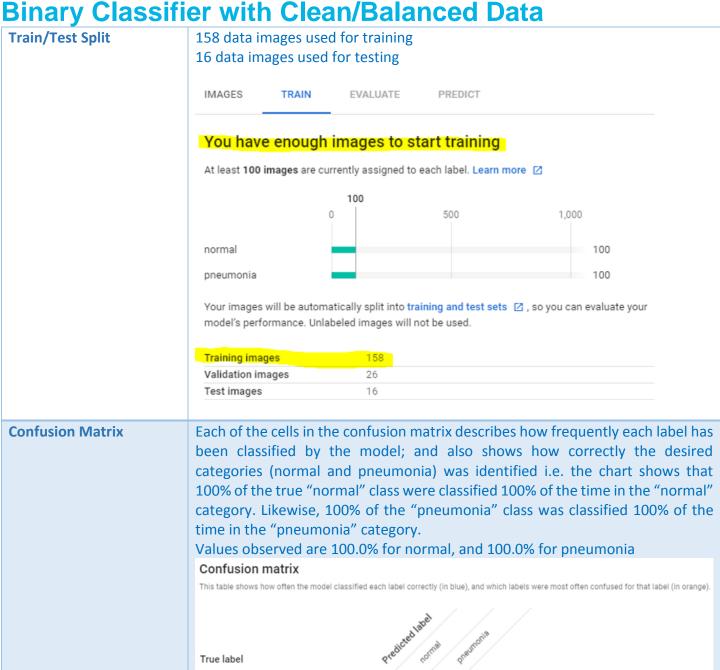
AutoML Modeling Report



<B.Akintade>

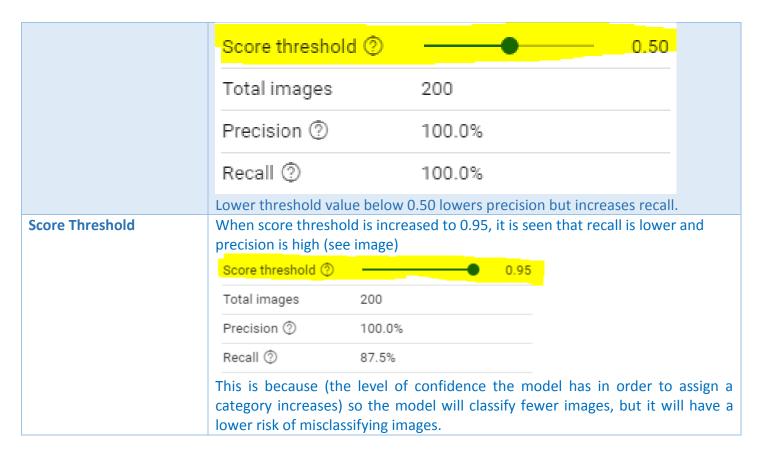
normal

pneumonia



True positive rate for the "pneumonia" class: "pneumonia" was predicted positive and it's true i.e I predicted that the patient actually had "pneumonia" and it's true

False positive rate for the "normal" class: "normal" case was positively predicted and it's false i.e I predicted that the patient is "normal" and does NOT have pneumonia, but turns out prediction was false Reported values for the true positive rate for the "pneumonia" class is 100% indicating that the image is labelled as positive (for pneumonia) and the model outcome result is correct/positive i.e. pneumonia is present Reported values for the false positive rate for the "normal" class is 100% indicating that the image is labelled as positive (for pneumonia) but the model outcome result is negative Both reported values of 100% for true positive rate for the "pneumonia" class and false positive rate for the "normal" class also show high precision of 100% which means the model is identifying relevant instances of pneumonia where each label is properly assigned and shows a *perfect matrix without misclassification or ambiguity. High precision of 100% also indicate that every child identified as testing positive for pneumonia actually have pneumonia, but the model may miss some children that do have pneumonia, since it is getting false negatives. **Precision & Recall** Both precision and recall are two common measures used to evaluate a model in order to understand how the model performs for an individual class, and how it performs across classes. They also provide understanding to how accurately well a model is capturing information, and how much information it is leaving out. Precision helps to measure exactly how many labelled images/data that are supposed to be categorized with a specific label, from all the test examples that was assigned a label ('normal' or 'pneumonia'). Modeled precision answers the question of when the model makes a prediction, how likely is that prediction to be correct? Recall helps to measure the specific number of labels that was actually assigned from all the test examples that should have had the label assigned ('normal' or 'pneumonia'). Model recall answers the question of how good is a model at identifying actual occurrences of objects in the data. This will give us an understanding of whether or not the model can recognize these objects For a score threshold of 0.5, the model achieved a precision of 100.0% and recall of 100.0% (see image). Since the model achieved a 'perfect' precision of 100.0% for both, this indicates that the data may not generalize well as it was too easy.



EVALUATE

