

AutoML Modeling Report



<Your Name Here>

Binary Classifier with Clean/Balanced Data

Train/Test Split How much data was used for training? How much data was used for testing?	
Confusion Matrix What do each of the cells in the confusion matrix describe? What values did you observe (include a screenshot)? What is the true positive rate for the "pneumonia" class? What is the false positive rate for the "normal" class?	
Precision & Recall What does precision measure? What does recall measure? What precision and recall did the model achieve (report the values for a score threshold of 0.5)?	
Score Threshold When you increase the score threshold, what happens to precision? What happens to recall? Why?	

Binary Classifier with Clean/Unbalanced Data

Train/Test Split How much data was used for training? How much data was used for testing?	
Confusion Matrix How has the confusion matrix been affected by the unbalanced data? Include a screenshot of the new confusion matrix.	
Precision & Recall How have the model's precision and recall been affected by the unbalanced data? (Report the values for a score threshold of 0.5.)	
Unbalanced Classes From what you've observed, how do unbalanced classes affect a machine learning model?	

Binary Classifier with Dirty/Balanced Data

Confusion Matrix How has the confusion matrix been affected by the dirty data? Include a screenshot of the new confusion matrix.	
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Precision & Recall How have the model's precision and recall been affected by the dirty data? (Report the values for a score threshold of 0.5.) Of the binary classifiers, which has the highest precision? Which has the highest recall?	
Dirty Data From what you've observed, how do dirty data affect a machine learning model?	

3-Class Model

Confusion Matrix Summarize the 3-class confusion matrix. What classes are the model most likely to confuse? What class(es) is the model most likely to get right? What might you do to try to remedy the model's "confusion"? Include a screenshot of the new confusion matrix.	
Precision & Recall What are the model's precision and recall? How are these values calculated? (Report the values for a score threshold of 0.5.)	
F1 Score What is this model's F1 score?	

