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Build a Model with Google AutoML

REVIEW

HISTORY

Meets Specifications

Congratulations on Passing the Project!

You've done a great job overall, Kudos! 🙌

I've added an additional comment in the review section. Be sure to go through them.

You've done a great project. I can't wait to see what you do next!

Good Luck!

Submission is Complete

All questions in the AutoML Modeling Report have been completed. Screenshots of all 4 confusion matrices are included.

All questions were answered and the screenshots of all 4 confusion matrices were included.

Congrats!

Clean/Balanced Data

The student correctly reports the number of images used for training and testing.

Good job here! Correctly mention the test set used in this report perfectly.

The student should explain the values observed in each of the four cells of the confusion matrix. The student correctly identifies the true positive rate for the "pneumonia" class and the false positive rate for the "normal" class.

Excellent descriptions and correct report of the rates. Good job! You understand the confusion matrix correctly! Keep it up 👍

The student correctly explains the meaning of precision and recall, and they report the precision and recall they observed.

Great job! You correctly defined the meaning of precision and re-call value. Also properly mention the values correct! 🙌

The student correctly explains the effect of increasing the score threshold on precision and recall, and describes why.

Nicely done! Neatly mentioned about increase in precision and decrease in recall value. ✓

Clean/Unbalanced Data

The student should have used 400 images and correctly described how they are distributed between training and testing.

Perfect Dataset! Implemented as per the given rubrics to pass this test and also well described the test and train split correctly. Good job! keep it up 👍

The student describes how the confusion matrix changed relative to the clean/balanced model, and explains what potentially caused these results.

Very good explanations. Congratulations! Well described about changes occurred with Clean/Unbalanced data when compared with the previous model. 🎓

The student reports the precision and recall they observed.

Correct! You have properly mention affects by the unbalanced dataset on precision and recall value.

The student should note how unbalanced data impacted the model based on what they observed.

Good job! Perfectly describes the impact of unbalanced data set on trained model.

Dirty/Balanced Data

The student describes how the confusion matrix changed, and explains what potentially caused these results.

Nicely done!

The student describes how precision and recall changed in this model, and evaluates which binary classification model produced the highest precision and recall.

You did a marvelous job on describing the precision and recall values affected in this model. Also, you have specified binary classification correctly. Good job! 🙌

The student provides a summary of what they observed and an appropriate interpretation of the impact of dirty data.

WELL DONE! You mention the impact and causes of the dirty data correctly.

Three-Class Model

The student provides and correctly interprets the 3-class confusion matrix. The student provides an idea for how to improve the model.

You have created perfect Dataset and also provided the remedy to increase the accuracy of the model.

The student reports their precision and recall, and correctly reports how 3-class precision and recall are calculated.

Good job. Properly mentioned calculation!

The student correctly calculates the model's F1 score.

Perfectly calculated the F1 score matrix!
$$F1 \text{ score} = \frac{2 * \text{precision} * \text{recall}}{(\text{precision} + \text{recall})}$$

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