should training and inference time be considered in the eval?

white_tickeyesraised_hands

3 replies



**SimonSimon**  [8 hours ago](https://qut-cab420-24se1.slack.com/archives/C06GCR4G8GH/p1715840591494249?thread_ts=1715840375.231239&cid=C06GCR4G8GH)

You certainly could.



**Zoe WrightZoe Wright**  [5 hours ago](https://qut-cab420-24se1.slack.com/archives/C06GCR4G8GH/p1715852019182339?thread_ts=1715840375.231239&cid=C06GCR4G8GH)

Would inference time be more relevant here compared to training time? Since the task specification asks for "how [performance] differs between the two approaches"



**SimonSimon**  [4 hours ago](https://qut-cab420-24se1.slack.com/archives/C06GCR4G8GH/p1715852147231749?thread_ts=1715840375.231239&cid=C06GCR4G8GH)

Yep. Inference is also more relevant for Q1, and usually is in general as in operation you only train the model once, and then use it over and over again for inference.

You're fine to let the weights change.The big benefit from fine-tuning is that the weights that you start from are already somewhat good for your task - or at least better than just random weights. Sometimes they may be so well aligned that you don't need to adjust them, but often some tuning of them is good. For the MobileNet model, it's small enough that you can tune the whole thing.The "op

A discussion of methods that were explored to improve performance for both models and mitigate identified issues, and potentially other methods that were considered but not implemented due to computational constraints.I am currently struggling to answer the question regarding computational constraints, I was wandering for a standard multi-task learning task, is there any specific computational constraints imposed? I have been researching online but have struggled to find relevant sources.I was also wandering what Ensemble Learning is?Thanks (edited)

white_tickeyesraised_hands

1 reply



**SimonSimon**  [1 day ago](https://qut-cab420-24se1.slack.com/archives/C06GCR4G8GH/p1715756769991259?thread_ts=1715752380.336989&cid=C06GCR4G8GH)

if computational constraints did not effect your thinking, then you can not mention that - but one obvious example with computational constraints would be image size. Most people will resize images to something less than 224,224 - but you'd probably get better results at the higher res.

A discussion of methods that were explored to improve performance for both models and mitigate identified issues, and potentially other methods that were considered but not implemented due to computational constraints. We do not require your investigation to necessarily yield improved results, rather we require that your proposed methods to improve model performance are logical and consistent with difficulties encountered. If your investigation does not yield improved performance, reflect on potential reasons why this might have occurred. Include figures/tables as needed to support illustrate the impact on performance of the proposed methods. (1 page)Just want to confirm, does this mean we have to find a way to improve our already existing model and discuss it here, or should we discuss the entire process from when our model performed poorly initially to our current best model so far, including the methods we've discovered to reach our current best model? (edited)

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1 reply



**SimonSimon**  [4 days ago](https://qut-cab420-24se1.slack.com/archives/C06GCR4G8GH/p1715508827781199?thread_ts=1715501949.940109&cid=C06GCR4G8GH)

You can:

* try improve it
* discuss what you did, what worked, what didn't
* discuss things you might be interested in doing if you had time/compute resources