**Possible fixes:**

* Changing nan-infill and expand\_dims method: <https://www.kaggle.com/competitions/asl-fingerspelling/discussion/409722#2276829> [@forrato](https://www.kaggle.com/forrato) It's really unclear to me why this would help.
* Making sure model can handle empty input: <https://www.kaggle.com/competitions/asl-fingerspelling/discussion/415372>

#https://www.kaggle.com/competitions/asl-fingerspelling/discussion/414682

* 1. TFlite version

**TF Lite Runtime version number correction**

Due to an internal miscommunication the metric has been using TF Lite runtime version 2.14.0 rather than 2.9.1 as previously stated on the evaluation tab. We are going to stick with version 2.14.0 to avoid breaking submissions that have already succeeded.

I don't know how many failing submissions were caused by this issue, but I really apologize to everyone affected by this.

Edit: here is [the exact TF Lite runtime wheel we've been using](https://www.kaggle.com/datasets/philculliton/tflite-wheels-2140).

* 1. Inference time accepted to be submitted

<https://www.kaggle.com/competitions/asl-fingerspelling/discussion/430021> :

I finally find out the solution for the error, The issue is the inference time for the model, My current model's times  
WER: 9.56117  
Mean time: 3.0161214  
Mean time only infer: 2.6765670

depending on my research on the competition rules the model should run within 5 hours

Your model must also perform inference in less than 5 hours and use less than 40 MB of storage space. Expect to see approximately 35 hours of video in the test set.

the approximate maximum Mean Only Inference Time for the model is nearly 0.6 seconds from my calculation.

* 1. Corrected the error

https://www.kaggle.com/competitions/asl-fingerspelling/discussion/409722#2276829

I finally found the problem with submission. (the current top 10 of the competition)

In previous competition I filled nans with this code. And also I unsqueezed tensor like this. (I changed both lines, didn't try change it one by one)

x = tf.where(tfnp.isnan(x), 0.0, x)

x = tf.expand\_dims(x, axis=0)

It worked fine in previous competition. And it work fine here in local kernel. But has error while submission scoring

I just changed this lines to:

x = tf.where(tfnp.isnan(x), tf.zeros\_like(x), x)

x = x[None]

Maybe it will help someone. Not so obvious reasons, as for me

* 1. Simple sample and inference model that works

<https://www.kaggle.com/code/wonderingalice/working-sample-submission-and-inference?scriptVersionId=130826155>