⋮

Week 3 Discussion

18   18

Dave DeBarr

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Dave DeBarr

Apr 21, 2021

⋮

I thought I saw a question posted but it seems to have disappeared?

Let's suppose someone asked, "Hey Dave, How can I estimate what the mean AUC would be for my model before submitting my predictions?"

Well, our model selection metric is "val_auc", where the metric is produced by ...

metrics.AUC(multi_label = True)

... where multi_label = True is a "boolean indicating whether multilabel data should be treated as such, wherein AUC is computed separately for each label and then averaged across labels."

https://keras.io/api/metrics/classification_metrics/#auc-class

You can submit up to 5 prediction files per day. You can pick which prediction sets get used for the final score by using the **https://www.kaggle.com/c/ml530-2021-sp-reuters/submissions**   interface; or by default, the top 2 prediction sets [based on public leaderboard score] will be used.

Edited by **Dave DeBarr** on Apr 21 at 6:38pm

↩ **Reply**   👍 (2 likes)

Dave DeBarr

Apr 21, 2021

For what it's worth: according to my event log, this is why my computer suddenly shut down yesterday at 6:33pm ...

```
The system was hibernated due to a critical thermal event.
Hibernate Time = 2021-04-21T01:33:02.933005200Z
ACPI Thermal Zone = \_SB.PCI0.LPCB.TZ03
_HOT = 327K
```

Looks like it's time for a new computer :\

↩ **Reply** 👍 (1 like)

Luis Garduno

Apr 22, 2021

The same happened to me on my previous Surface Pro 4, the cooling system was not good enough for such a small body (although it got better with the next generations). For me it even caused the battery to swell (the screen showed early signs of this) and so I was forced to replace it.
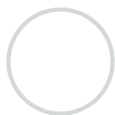
↩ **Reply** 👍

Dave DeBarr

Apr 24, 2021

I ordered a Surface Laptop 4, but estimated delivery says it will be delivered by Tuesday @ 7pm. Fingers crossed that it arrives a bit early, so I can use the new laptop for class.

↩ **Reply** 👍

Glen A Frison

Apr 24, 2021

I am unable to login to my VM. I tried to reset the password but it didn't seem to work. I might be locked out due to too many attempts or something. How can I get support?

Reply 👍

Dave DeBarr
Apr 24, 2021

Send email to **sadm_rudy514@uw.edu**.

How many hours does it say you've used when you navigate to **My virtual machines - Azure Lab Services** ?

When you click "Reset password" from the "More actions menu", I think it should make it so you can login again.

Are you able to connect, but it says "login failed"?

Reply 👍

Glen A Frison
Apr 24, 2021

Thanks for the quick response! It says I've only used 4.4 hours. Yes, I used "Reset password" from the "More actions menu". I can connect but then get access denied. I can see it's using "deeplearning" account. Maybe it's got a lockout time interval. So maybe I'll just retry later and if it still fails send that email.
Edited by **Glen A Frison** on Apr 24 at 7:15pm

Reply 👍

Glen A Frison
Apr 24, 2021

It's working now, probably a lockout timer, or maybe a propagation thing.
Edited by **Glen A Frison** on Apr 24 at 7:50pm

Reply 👍

Dave DeBarr
Apr 24, 2021

Yay!

Reply 👍

Eric Kuo

Apr 25, 2021

Hi Dave,

I have a quick question. I tweaked the hyperparameters in the reuters-train.py.txt file, and trained an initial model. I made additional tweaks, and want to retrain it. However, when I run 'python reuters-train.py.txt,' it seems to skip retraining and return the parameters/score of the initial model that was trained.

What commands/steps do I need to take to retrain a new model?

Thanks!

↩ Reply 👍

Dave DeBarr

Apr 25, 2021

Awesome job tweaking stuff!

The tuner class has "directory" and "project_name" parameters that it uses to store search history. Consider changing the name of the "project_name" to store new search history.

↩ Reply 👍

Eric Kuo

Apr 25, 2021

Thank you much!

↩ Reply 👍

Carl Gaither

Apr 25, 2021

Hi Dave,

I'm getting a No module named 'tensorflow' error. Probably unrelated, but I also couldn't get the wget command to run. I ended up copying over the files by hand. Before I try messing with anything, do you have any suggestions as to why tensorflow might not be working for me now?

Thanks,

Carl

↩ **Reply** 👍

○ **Dave DeBarr**
Apr 25, 2021

⋮

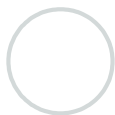Did you "conda activate py37_tensorflow"?

↩ **Reply** 👍

○ **Carl Gaither**
Apr 25, 2021

⋮

Yes, I did. But I restarted my VM and now everything seems to be working. Weird.

Thanks for the quick reply.

↩ **Reply** 👍

○ **Hans-Erik Andersen**
Apr 26, 2021

⋮

I'm sorry if this has been addressed already, but I'm wondering if folks have suggestions for GPUs that would be optimal for deep learning/scientific computing if somebody has several $1000s burning a hole in their pocket? The Titan V marketing is very good, but other sites seem to recommend something like RTX 3080 Ti. Or suggestions for resources to gain understanding on this topic. Deservedly or not, many of us will become one of the de facto "deep learning experts" in our organizations after taking this certificate course, so it would be great to gain some insight into how to make hardware decisions/recommendations for ourselves and others. For example, I currently have a nVidia Quadro GPU which is pretty much required for 3D stereo (which I do for work) but apparently pretty suboptimal for deep learning.

Thanks!

↩ **Reply** 👍

○ **Dave DeBarr**
    Apr 26, 2021

Maybe this helps a little?

[RTX A6000 Deep Learning Benchmarks | Lambda (lambdalabs.com)](#)

A number of contenders are mentioned.

We'll talk about some of those models during class.

My perception: the A100 costs around twice as much as the RTX A6000.

Maybe rent if possible, to check how it works for your workloads?

↩ **Reply** 👍

○ **Hans-Erik Andersen**
    Apr 27, 2021

Thanks - this is helpful! I like the idea of renting to test on our data and algorithms...

↩ **Reply** 👍