

# Explore Machine Learning Models with Explainable AI: Challenge Lab

Let us pass!

2021-06-18

# First of all, I have tried 4 times... Orz



Is with Explainable AI: Challenge Lab

0/5



Explore Machine Learning Models with Explainable AI: Challenge Lab	Lab	23 minutes ago	1 minute ago	100.0/100.0	✓
VPC Networks - Controlling Access	Lab	about 1 hour ago	28 minutes ago	100.0/100.0	✓
Multiple VPC Networks	Lab	about 1 hour ago	about 1 hour ago	100.0/100.0	✓
User Authentication: Identity-Aware Proxy	Lab	about 6 hours ago	about 6 hours ago	100.0/100.0	✓
Explore Machine Learning Models with Explainable AI: Challenge Lab	Lab	1 day ago	about 24 hours ago	90.0/100.0	✗
Build and Secure Networks in Google Cloud	Quest	1 day ago			
Explore Machine Learning Models with Explainable AI: Challenge Lab	Lab	1 day ago	1 day ago	90.0/100.0	✗
Explore Machine Learning Models with Explainable AI: Challenge Lab	Lab	1 day ago	1 day ago	90.0/100.0	✗
Explore Machine Learning Models with Explainable AI: Challenge Lab	Lab	1 day ago	1 day ago	90.0/100.0	✗

# Deploy the models to AI Platform

Now, you'll [deploy your models](#) to the AI Platform.

**Hint:** You need to first create a storage bucket to store your models in.

## Key Step:

### Create the Complete AI Platform model

Use the following to create your first AI Platform model:

- Model Name = `complete_model`
- Version Name = `v1`
- Python version = `3.7`
- Framework = **TensorFlow**
- Framework version = `2.3.1`
- ML Runtime version = `2.3`

### Create the Limited AI Platform model

Use the following to create your second AI Platform model:

- Model Name = `limited_model`
- Version Name = `v1`
- Python version = `3.7`
- Framework = **TensorFlow**
- Framework version = `2.3.1`
- ML Runtime version = `2.3`

We should not follow this.  
We should keep using the  
Notebooks' value:

**saved\_complete\_model**  
and  
**saved\_limited\_model**

Click *Check my progress* to verify the objective.

Crad · 2 months ago · edited

Hi Chris,

This challenge has been updated and the "walkthrough" is out-of-date now.

Changes that were needed on my side in order to properly finish without any issues:

1. Change region for notebook instance to us-central1
2. Bucket HAS TO be multiregional (otherwise qwiklabs won't notice your deployed models).
3. DON'T change REGION variable to 'us-west1', keep it as 'us-central1' within the notebook
4. Qwiklabs sends a notification that you need to specify TensorFlow Runtime version to 2.3 and there are a couple changes to the directory naming schema within the bucket itself. Most up to date version creation commands are:

```
!gcloud ai-platform versions create $VERSION_NAME \  
--model=$MODEL_NAME \  
--framework='TensorFlow' \  
--runtime-version=2.3 \  
--origin=$MODEL_BUCKET/saved_complete_model/complete_model \  
--staging-bucket=$MODEL_BUCKET \  
--python-version=3.7 \  
--project=$GCP_PROJECT
```

and

```
!gcloud ai-platform versions create $VERSION_NAME \  
--model=$LIM_MODEL_NAME \  
--framework='TensorFlow' \  
--runtime-version=2.3 \  
--origin=$MODEL_BUCKET/saved_limited_model/limited_model \  
--staging-bucket=$MODEL_BUCKET \  
--python-version=3.7 \  
--project=$GCP_PROJECT
```

With these changes applied it's a breeze. Thank you for your work!

EDIT: You might also wonder whether the model names are correct. The qwiklabs notifications are specifying that the model name should be 'complete\_model' while the notebook script has 'saved\_complete\_model'. But leave it as 'saved\_complete\_model'. I already reported the issue, so this might be changed in the future, but if you leave it as is then everything's fine.

^ | v · Reply · Share >

# Key Step:

Runtime should use **2.3**

# Lesson learnt

1. True that, there are YouTube and GitHub provides some solutions.
2. But, **Qwiklabs** modified their questions time to time.
3. “Comment” is the MUST-READ!

# References

- **Explore Machine Learning Models with Explainable AI: Challenge Lab | logbook**

<https://chriskyfung.github.io/blog/qwiklabs/Explore-Machine-Learning-Models-with-Explainable-AI-Challenge-Lab> (The first comment is important!)

- **My GitHub Repo**

<https://github.com/oktak/Cloud-Study-Jam-2021>

# Thanks

- **Leonardo LEE**

He has given me the hints, and then I can pass the Lab successfully.

- **The support team of Qwiklabs**

They response quickly. Though they tried to send me some GitHub and YouTube links that they are not leading me to the final solution. (I've called support via the Chat of Qwiklabs. )