

1. Introduction

During the last two years that the ITU AI/ML 5G Challenge was running, one of the important hurdles which participants faced is the access to compute, especially GPUs. This important resource helps participants to perform accelerated analysis and high-quality deep learning using large datasets provided by problem statement owners. Moreover, top-notch compute resources are costly and available in-house only to certain participants, e.g. in cases where the institutions where they are affiliated are able to afford them.

With an aim to provide free access to GPU and CPU for participants who need them, the ITU AI Challenges (AI/ML in 5G Challenge, GeoAI, and TinyML) will provide compute (GPU and CPU) to participants of the challenge who need it.

ITU hosted compute resources are limited and shared across participants from all over the world. Therefore, we encourage participants to be considerate when requesting access and using the compute platform.

Important NOTE- These resources must be used solely for the purpose of the challenge. Please note also the code of conduct (please see the [challenge participation guidelines](#)).

1. Compute platform description

Participants will access the GPU platform with NVIDIA TESLA V100 GPUs, 32 or 64 GB RAM, 7 or 14 CPU cores.

Ubuntu version 20 is supported.

2. Limitations

Following are the known limitations of the ITU Challenge compute platform:

- Currently Tensorflow 2.8, Pytorch 1.9, and Fastai 2-6-3 are supported.
- ITU Firewall may block certain specific protocols and ports, even out-going requests e.g. access to hosted services may be blocked.
- Participants would be provided web access to compute instances via port 80 and 443, Participant will not get ssh access. Terminal based on web access is possible via jupyter.
- Participant can share the notebook (but cannot transfer compute resources across teams).
- Participants have to use /home (or other personal storage e.g. google cloud) for all data storage.
- Storage of 20 -60 GB is available per instance.
- Compute instance would be available for maximum 36 hours by default, after which it may be killed without notice. Participants are requested to take regular backup of important data and notebooks to personal disks e.g. google cloud or other storage.
- While we work tirelessly to make sure the resources are available 24x7, it is possible that unfortunate unplanned outages happen. Participants are requested to take regular backup of important data and notebooks to personal disks e.g. google cloud or other storage.

3. Access protocol

1. how to request access?

FCFS (first come first served), please use the request form in annex-1

2. how to report problems?

AI-5G-Challenge, ITU ai5gchallenge@itu.int

critical problems would be raised via chat option in JL support website and email to:
hello@jarvislabs.ai

3. how to give feedback?

AI-5G-Challenge, ITU <ai5gchallenge@itu.int>

Annex-1: ITU Challenge Compute Platform Request Form

Please fill in the form below to request the compute;

Name (First, surname):	
Email:	
Institution:	
Country:	
Profession:	
Problem statement:	
Purpose of the request:	
How long you would like to use the platform:	
Justify the purpose	

For official use

Request (approved/denied):

Compute Instance:

Usage:

Signed: