

Daniel Bruintjies
6th PLACE SOLUTION to
ZINDI DATA SCIENCE COMPETITION¶
Network Traffic Scenario Prediction Challenge by ITU
<https://zindi.africa/competitions/network-traffic-scenario-prediction-challenge>

Please find attached these 2 notebooks:

[V14-network-traffic-classification-lstm.ipynb](#)

[Commented-V14-network-traffic-classification-lstm.ipynb](#)

Please Note:

After commenting and cleaning up my initial notebook

[V14-network-traffic-classification-lstm.ipynb](#) I was unable to reproduce my exact score.

Nonetheless, if you run [Commented-V14-network-traffic-classification-lstm.ipynb](#) with the steps below, it should still place me at 6th on the leaderboard.

Environment:

I used Kaggle's latest GPU P100 environment. Expected notebook runtime is 1hr10min.

I please ask that you reproduce my solution in a Kaggle GPU environment.

Necessay steps to run [Commented-V14-network-traffic-classification-lstm.ipynb](#) notebook:

1. Download and unzip all Competition Data.
2. In Paths & Settings section in notebook change variables `train_files_p`, `test_files_p`, & `ss_p` to respective paths of train csv files folder, test csv files folder and sample submission.csv path.
3. Run the notebook.
4. Lookout for the sub.csv submission file to reproduce my score.

Alternatively, to reproduce exact score, run

[V14-network-traffic-classification-lstm.ipynb](#) notebook:

1. Download and unzip all Competition Data.
2. Look for `train_files_p`, `test_files_p`, & `ss_p` in beggining of notebook and change to respective paths of train csv files folder, test csv files folder and sample submission.csv path.
3. Run the notebook.
4. Lookout for the sub.csv submission file to reproduce my score.

Thanks!