

COVID-19 Data Science Challenge August 2020

Guidelines for Reading your Dashboard for Phase 1

In your dashboard, we report a selected set of metrics related to your model's **prediction accuracy** related to `sum_visit_counts` of 304 unique `uuids` for `week_18` as well as your **effort** in achieving this accuracy.

Your dashboard has two components: Your scores and Your peers.

- Your scores tell you about individual metrics.
- Your peers provide you some more insight into your current standing in the hack with 47 participants and 7 submissions in phase 1.

In both components, we present the following metrics:

Metric	Brief Description/Formula	Data type
MSPE	The Mean Squared Prediction Error for the <code>sum_visit_counts</code> for <code>week_18</code> is calculated as following: $MSPE = \frac{1}{n} \sum_{i=1}^n (Y_i - \hat{Y}_i)^2$; with <code>n</code> being the 304 unique <code>uuids</code> in <code>week_18</code> ; if your cells where "empty" for certain <code>uuids</code> we assume that you submitted a 0; the lower your MSPE, the better your model; please note that the MSPE is sensitive to outliers. The MSPE is commonly used in other Data Science Challenges; thus, in this challenge, we will be using the MSPE	FLOAT (rounded to two digits)
MAPE	The Mean Absolute Prediction Error for the <code>sum_visit_counts</code> for <code>week_18</code> is calculated as following: $MAPE = \frac{1}{n} \sum_{i=1}^n (Y_i - \hat{Y}_i)$; with <code>n</code> being the 304 unique <code>uuids</code> in <code>week_18</code> ; if your cells where "empty" for certain <code>uuids</code> we assume that you submitted a 0; the lower your MSPE, the better your model	FLOAT (rounded to two digits)
Notebook Effort	The Notebook Effort score describes your effort in using your notebook to build your model; it considers the number of cells as well as your activity in modifying and running them.	INTEGER
BigQuery Effort	The BigQuery Effort describes your effort in understanding the data we provided you; it considers the number and the nature of the jobs you launched via your notebook.	INTEGER

How to read your scores and your peers? Here some tips:

- *The lower your MSPE the better; however, you do not necessarily need to have a value close to 0 to win the hack. Make sure you also compare the mean and the standard deviation in the your*

peers tab;

- *Your standing relative to the mean tells you how you are performing compared to the mean! Also, note that a large distance between you and the mean does not mean that you cannot catch up (or the other way around); we will eventually rank-order all participants to select the Best Solutions.*
- *Your Big Query Effort and your Notebook Effort count towards your overall effort during the hack. To allocate improvement spirit incentives we will consider both - your MSPE as well as your effort*

And a final note: Only the TWO best submissions will be considered for the final MSPE and MAPE calculation! And do not forget: According to the rules of the challenge, only 2 submissions are needed to qualify for an award.