

Practice Exercise - IoT analytics

This document consists of some practice exercises that learners can implement on their own. The idea behind adding these practice exercises is to help the learner gain more knowledge.

In this week mentored learning session we have covered following concepts:

1. Channel creation and dataset creation
2. Pipelines, datastores and notebooks on AWS sagemaker
3. Visualization of data on Node-Red

Additional tasks

In the lab session, you have gone through the cycle of data analytics and visualization, however, there are few things still you can practice after completing the provided notebook.

1. If you recall during the pipeline creation process there was an option to create the common variables that may be used for post processing the data.
 - a. You can try out creating new common attributes for all the JSON objects that will be pushed to the next step.
2. As an additional practical exercise, another task you can try out. This task is also available under pipeline creation. The activity is related to performing ETL on the captured data. Click on the drop down button and you can find various options to perform operation on the given data, Few examples if them could be:
 - a. Apply a filter to discard values beyond a range or to remove null values.
 - b. Transform the temperature coming in celsius to fahrenheit.