Problem Statement

You are given a weather dataset.Build and test a classification model on that dataset using Relative\_Humidity,Temperature,Weather\_type columns where you have to predict the WeatherType .

Sample Data-Temperature.csv

|  |  |  |
| --- | --- | --- |
| Relative\_Humidity | Temperature | Weather\_type |
| 27 | 30 | Smoke |
| 32 | 28 | Smoke |
| 44 | 24 | Smoke |
| 41 | 24 | Smoke |
| 47 | 23 | Smoke |

You can name the resources as follows:

Resource Group-Same as Before created

Storage Account-Weather

Input Container- WeatherIn

Output Container-WeatherOut

Stream Analytics Job-WeatherAnalysis

Function-predictWeather

ML Experiment-Weather Prediction

+

Steps:

1. Create a classification model and find its accuracy over the test data
2. After that serialize the model on disk in the special 'outputs' folder and close the folder.
3. Create an experiment Weather Prediction in ML Studio.
4. Upload the Test Dataset in the Studio .
5. Build the Model
6. Run the Model
7. Deploy the Web Service(Note the Access URL and the key)
8. You have to create a storage account Weather and two containers inside it such as WeatherIn and WeatherOut.
9. Upload the Weather dataset into WeatherIn.
10. Create a stream Analytics Job WeatherAnalysis and configure the inputs and the output.The input should be the WeatherIn and the output should be the WeatherOut.
11. Configure the function predictWeather with the help of previously created Web URl and the key with the help of the deployed web service.
12. Write the Query to get the function output in the form of predicted weatherType in the output storage.