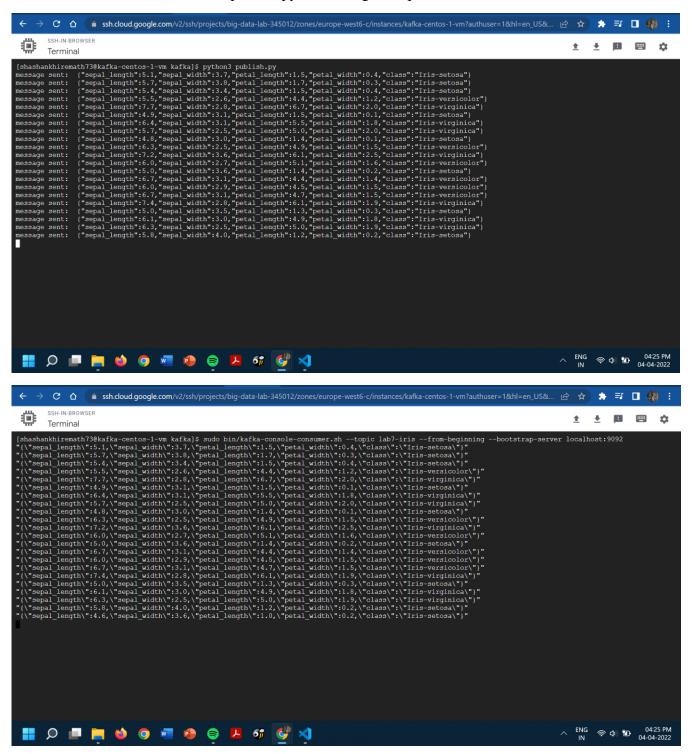
CS4830 Big Data Lab Assignment 5

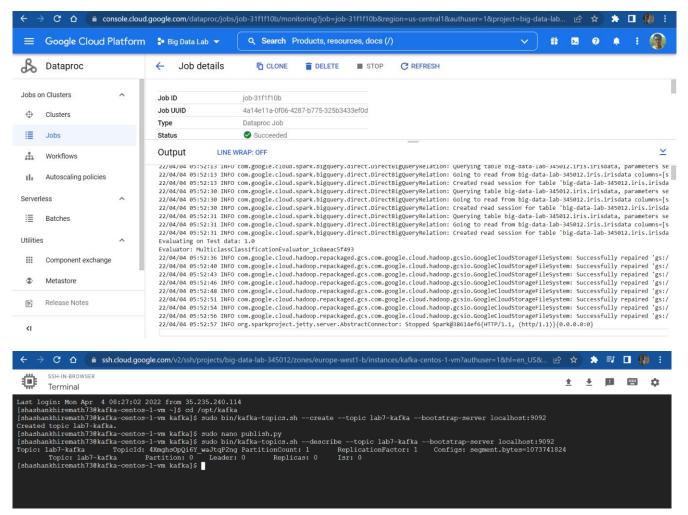
Shashank H S BE18B006

1. The screenshots show that publish.py is working as required.



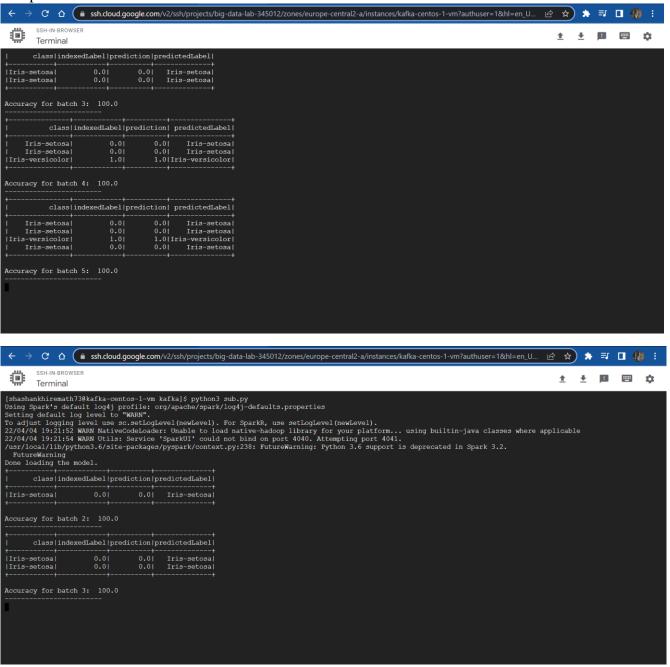
publish.py reads each row in iris.csv as a dataframe and dumps it using JSON. Then it encodes each row and publishes it to the topic irispred. This is decoded back in subscribe.py and converted from json to dataframe following the appropriate schema.

2. The random forest classifier trained on the iris dataset with 100 trees was saved in the bucket. The iris2.py file is in the zipped folder.



The topic was created on the kafka server and tested. Next, the subscribe.py file was created which gives real-time predictions for each row in the iris.csv file.

The pictures are attached below.



The RF classifier with 100 trees has not misclassified any data points (after several batches, picture not shown).