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Batch code: lisum11

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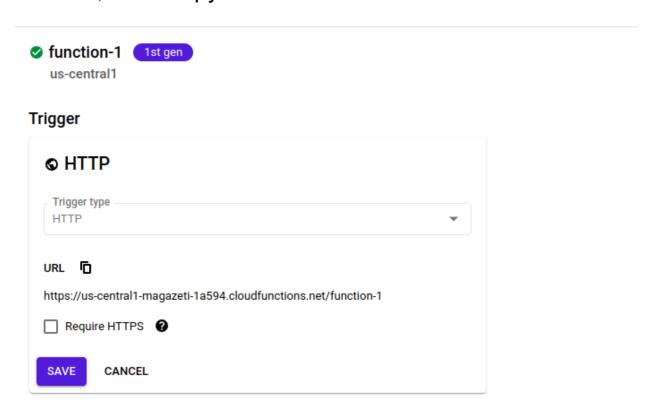
Submitted to: github

Model link: https://us-central1-magazeti-1a594.cloudfunctions.net/function-1

Introduction

Using a toy dataset (Iris dataset) from sklearn, we will deploy a model using google cloud function. Our model has 4 feature values: "sepal length (cm)", "sepal width (cm)", "petal length (cm)" and "petal width (cm)". Our target value has 3 classes: 'setosa', 'versicolor' and 'virginica'.

Step 1: Go to google cloud function and create a new function, choose python3.8



Step 2: Go to vs code and create main.py with the following code, extracted from week 4

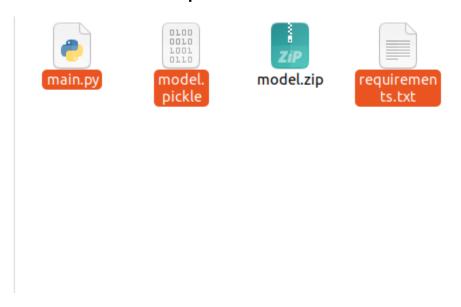
```
main.py 1, M X

    □ requirements.txt M

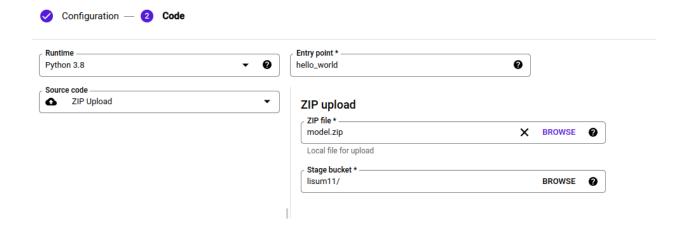
                                      TC New Request
                                                        TC 127.0.0.1:5000/predict?sv
week5 > cloud > 💠 main.py > 😭 hello_world
      import functions framework
  2
      import pickle
       targets = ["setosa", "versicolor", "virginica"]
  5
      @functions framework.http
       def hello world(request):
  8
           model = pickle.load(open("model.pickle", "rb"))
           slength = float(request.args.get("slength"))
 11
           swidth = float(request.args.get("swidth"))
 12
 13
           plength = float(request.args.get("plength"))
 14
           pwidth = float(request.args.get("pwidth"))
           res = model.predict([[slength, swidth, plength, pwidth]])
 17
           return targets[res[0]]
 18
```

Step 3: create requirements.txt

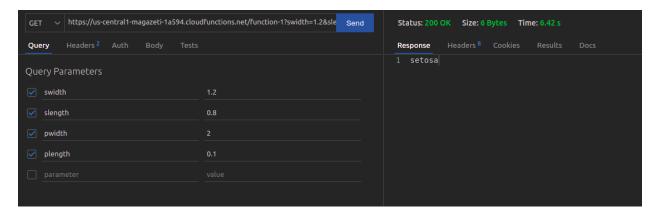
Step 4: zip three files: requirements.txt, main.py and model.pickle(we created in week 4) into a zip file called model.zip



Step 5: upload zip file to google cloud function console



Step 6: Test our new function using Thunderclient



Conclusion

A toy model was successfully deployed on the web using google cloud functions, and we tested it by providing 4 feature values, and we got "setosa" as predicted class.