

Bank Customer Churn Prediction

spain	▼
yes	▼
yes	▼
yes	▼
creditscore	
gender	
age	
balance	
no of	
estimated salary	
tenure	
Predict	

← → × ⓘ localhost:5000

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Bank Customer Churn Prediction

germany

no

no

yes

1

1

1

11

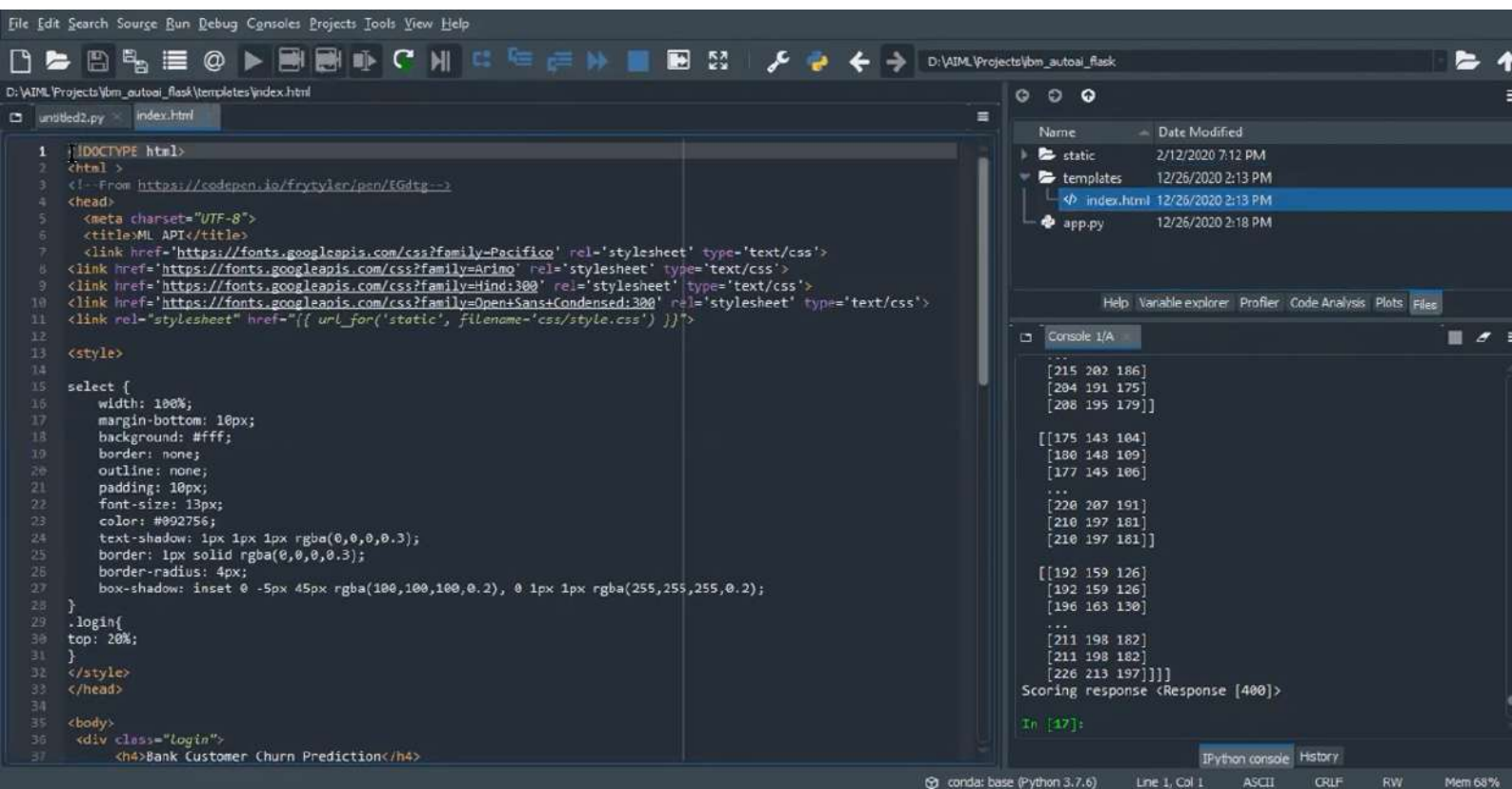
1

1

1

Predict

Waiting for localhost...



Spyder (Python 3.7)

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D:\AIML\Projects\bm_autoai_flask\app.py

```
1 import numpy as np
2 from flask import Flask, request, jsonify, render_template
3 import requests
4
5 import json
6 # NOTE: you must manually set API_KEY below using information retrieved from your IBM Cloud account.
7 API_KEY = "iCtSN6ILgqrSTLSlYEhHzxSBRVM_PAwFbtjzGMwM4y22"
8 token_response = requests.post('https://iam.ng.bluemix.net/identity/token', data={"apikey": API_KEY, "grant_type": "urn:ibm:params:oauth:grant-type:apikey"})
9 mtoken = token_response.json()["access_token"]
10 print("mtoken", mtoken)
11
12 header = {'Content-Type': 'application/json', 'Authorization': 'Bearer ' + mtoken}
13
14 # NOTE: manually define and pass the array(s) of values to be scored in the next line
15 #payload_scoring = [{"input_data": [{"fields": [array_of_input_fields], "values": [array_of_values_to_be_scored,
16
17
18 app = Flask(__name__)
19
20 @app.route('/')
21 def home():
22     return render_template('index.html')
23
24 @app.route('/y_predict', methods=['POST'])
25 def y_predict():
26
27     geography = request.form["geography"]
28     gender = request.form["gender"]
29     age = request.form["age"]
30     tenure = request.form["tenure"]
31     creditscore = request.form["creditscore"]
32
33     balance = request.form["balance"]
34     noof = request.form["no of"]
35     hascreditcard = request.form["has credit card"]
36     isactivenember = request.form["is active member"]
```

static 2/12/2020 7:12 PM

templates 12/26/2020 2:13 PM

index.html 12/26/2020 2:13 PM

app.py 12/26/2020 2:18 PM

Help Variable explorer Profiler Code Analysis Plots Files

Console 1/A

```
[215 202 186]
[204 191 175]
[208 195 179]]

[[175 143 104]
 [180 148 109]
 [177 145 106]
 ...
 [220 207 191]
 [210 197 181]
 [210 197 181]]

[[192 159 126]
 [192 159 126]
 [196 163 130]
 ...
 [211 198 182]
 [211 198 182]
 [226 213 197]]]]
Scoring response <Response [400]>

In [17]:
```

conda: base (Python 3.7.6) Line 1, Col 1 ASCII CRLF RW Mem 6

1:18 PM

File Edit Search Source Run Debug Consoles Projects Tools View Help

untitled2.py x index.html x app.py x

```
48 if (gender == "female"):
49     gender = 0
50 if (gender == "male"):
51     gender = 1
52
53 if (isactivemember == "no"):
54     isactivemember = 0
55 if (isactivemember == "yes"):
56     isactivemember = 1
57
58 if (hascreditcard == "no"):
59     hascreditcard = 0
60 if (hascreditcard == "yes"):
61     hascreditcard = 1
62
63 t = [[int(s1),int(s2),int(s3),int(creditscore),int(gender),int(age),int(tenure),ir
64 print(t)
65 payload_scoring = {"input_data": [ {"field": [{"G1","G2","G3","CreditScore","Gende
66     "values": t}]}
67 response_scoring = requests.post('https://us-south.ml.cloud.ibm.com/ml/v4/deployme
68 print("Scoring response")
69 predictions = response_scoring.json()
70 print(predictions)
71 pred = predictions['predictions'][0]['values'][0][0]
72 if(pred == 0):
73     output = "he will not get exited"
74     print("he will not get exited")
```

Name Date Modified

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app.py 12/26/2020 2:18 PM

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Console 1/A

...

[215 202 186]

[204 191 175]

[208 195 179]]

...

[[175 143 104]

[180 148 109]

[177 145 106]

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[210 197 181]

[210 197 181]]

...

[[192 159 126]

[192 159 126]

[196 163 130]

...

[211 198 182]

[211 198 182]

[226 213 197]]]]

Scoring response <Response [400]>

In [47]:

conda: base (Python 3.7.6) Line 63, Col 137 ASCII CRLF RW Mem 68%

← → ↻ ⓘ localhost:5000/y_predict ☆ 🖨 ⚙ 🔍

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