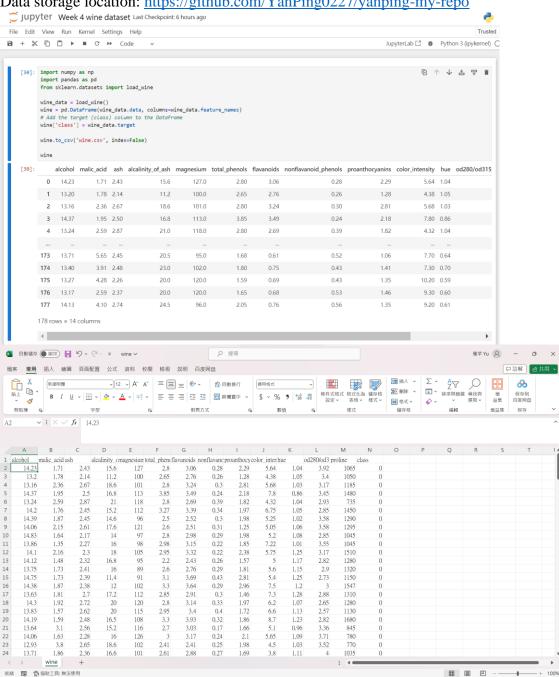
Report

Name: Deployment on Flask Report date: 03/07/2024 Internship Batch: LISUM30

Version:1.0

Report by: Yan-Ping Yu Data intake reviewer:

Data storage location: https://github.com/YanPing0227/yanping-my-repo



```
Spyder (Python 3.10)
<u>File Edit Search Source Run Debug Consoles Projects Tools View Help</u>
C:\Users\User\Desktop\Data Glacier Internship\Week4\model classification.py
model classification.py X Week4_Flask.py X
   1 import pandas as pd
     import pickle
     dataset = pd.read_csv('wine.csv')
  8 X = dataset.iloc[:, :13]
  9 y = dataset.iloc[:, -1]
  from sklearn.ensemble import RandomForestClassifier
  12 rf = RandomForestClassifier()
 15 rf.fit(X, y)
     # Saving model to disk
  pickle.dump(rf, open('model_classfication.pkl','wb'))
Spyder (Python 3.10)
C:\Users\User\Desktop\Data Glacier Internship\Week4\html_week4.html
model classification.py X html_week4.html X Week4_Flask.py X
  1 <!DOCTYPE html>
   <html >
    <meta charset="UTF-8">
<title>ML API</title>
 12 </head>
 14 <body>
15 <div class="login">
      <h1>Classify Wine</h1>
      <button type="submit" class="btn btn-primary btn-block btn-large">Predict</button>
      </form
      {{ prediction_text }}
    44 </body>
45 </html>
```

```
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model classification by X Bent week 4 Plank by X

1 import numpy as np
2 from flask import Flask, request, render_template
3 import pickle
4 app = Flask(_name__)
6 model = pickle.load(open('model_classfication.pkl', 'rb'))
7 @opp.route('/')
9 def home():
10 return render_template('html_week4.html')
11
2 @opp.route('/predict', methods=['POST'])
15 features = [x for x in request.form.values()]
16 features = [x for x in request.form.values()]
17 features = [np.array(features)]
18 prediction = model.predict(final_features)
20 output = prediction = model.predict(final_features)
21 output = prediction[0]
22 return render_template('html_week4.html', prediction_text='The class of wine should be ()'.format(output))
24 if __name__ == "__main_";
25 app.run(debug=True)
```

PS C:\Users\User> cd "C:\Users\User\Desktop\Data Glacier Internship\Week4"
PS C:\Users\User\Desktop\Data Glacier Internship\Week4> python -m venv for_flask
PS C:\Users\User\Desktop\Data Glacier Internship\Week4> for_flask\Scripts\activate

```
A Designation of the control of the
```

```
ing ipykernel
sading ipykernel-6.29.3-py3-none-any.mhl (117 kB)
                      g comm=0.1.1
achde comm=0.2.1-py3-none-any.whl (7.2 bE)
g debuggy=1.6.2
ding debuggy=1.6.1-cp311-cp311-min_medds.whl (0.7 PE)
                                           >=7.23.1
hon=8.22.2-py3-none-any.whl (811 kB)
                                                    >=360
in32-386-cp311-cp311-win_amd64.whl (9.2 HB)
.9.8,>=8.8.3
so-0.8.3-py2.py3-none-any.whl (188 kB)
                               width
d wcwidth-0.2.13-py2.py3-none-any.whl (34 kB)
lready satisfied: six>=1.5 in c:\users\user\de:
                                    rest

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rective 3-
      (for_flask) PS C:\Users\User\Desktop\Data Glacier Internship\Week4> pip uninstall Flask Jinja2 Found existing installation: Flask 1.1.1 Uninstalling Flask-1.1.1:
            Would remove:
                   c:\users\user\desktop\data glacier internship\week4\for_flask\lib\site-packages\flask-1.1.1.dist-info\*
     c:\users\user\desktop\data glacier internship\week4\for_flask\lib\site-packages\flask\*
c:\users\user\desktop\data glacier internship\week4\for_flask\scripts\flask.exe
Proceed (Yn)? Y
Successfully uninstalled Flask-1.1.1
   Successfully uninstatled Flask-1.1.1
Found existing installation: Jinja2 3.1.3
Uninstalling Jinja2-3.1.3:
Would remove:
c:\users\user\desktop\data glacier internship\week4\for_flask\lib\site-packages\jinja2-3.1.3.dist-info\*
c:\users\user\desktop\data glacier internship\week4\for_flask\lib\site-packages\jinja2\*

Proceed (V.V.) 2.3.*
  Proceed (Y/n)? Y
Successfully uninstalled Jinja2-3.1.3
(for_flask) PS C:\Users\User\Desktop\Data Glacier Internship\Week4> pip install Flask
Collecting Flask
Downloading flask-3.0.2-py3-none-any.whl (101 kB)
101.3/101.3 kB 53.9 kB/s eta 0:00:00
   Collecting Werkzeug>=3.0.0
Downloading werkzeug-3.0.1-py3-none-any.whl (226 kB)
6.7 kB 1.7 MB/s eta 0:00:00
            or_flask) PS C:\Users\User\Desktop\Data Glacier Internship\Week4> python Week4_Flask.py
Serving Flask app 'Week4_Flask'
          Debug mode: on
            Running on http://127.0.0.1:5000
            Restarting with stat
 * Restarting with stat
* Debugger is active!
* Debugger PIN: 103-604-705

127.0.0.1 - - [08/Mar/2024 00:03:19] "GET / HTTP/1.1" 200 -

127.0.0.1 - - [08/Mar/2024 00:03:19] "GET /static/css/style.css HTTP/1.1" 404 -

127.0.0.1 - - [08/Mar/2024 00:03:19] "GET /static/images/Original.svg HTTP/1.1" 404 -

127.0.0.1 - - [08/Mar/2024 00:03:19] "GET /static/images/Original.svg HTTP/1.1" 404 -

12. \Users\User\Desktop\Data Glacier Internship\\Week4\for_flask\Lib\site-packages\sklearn\base.py:493: User\Warning: X does not have valid feature names, but Random\ForestClassifier was fitted with feature names

Warnings \Warnings \Wa
 not have varied readers, but Kandonii ofesterassifier was fitted with feature name warnings.warn(
27.0.0.1 - - [08/Mar/2024 00:04:00] "POST /predict HTTP/1.1" 200 -
27.0.0.1 - - [08/Mar/2024 00:04:01] "GET /static/css/style.css HTTP/1.1" 404 -
27.0.0.1 - - [08/Mar/2024 00:04:30] "GET /static/images/Original.svg HTTP/1.1" 404 -
27.0.0.1 - - [08/Mar/2024 00:04:30] "GET /static/css/style.css HTTP/1.1" 404 -
27.0.0.1 - - [08/Mar/2024 00:04:30] "GET /static/css/style.css HTTP/1.1" 404 -
27.0.0.1 - - [08/Mar/2024 00:04:30] "GET /static/images/Original.svg HTTP/1.1" 404 -
```



Classify Wine

alcohol	malic_acid	ash	alcalinity_of_ash	magnesium	total_phenols	flavanoids	nonflavanoid_phenols
proanthocyanins	color_intensity	hue	od280/od315_of_diluted_wi	proline	Predict		

Classify Wine

14.23	1.71	2.43	15.6	127	2.8	3.06	0.28
2.29	5.64	1.04	3.92	1065	Predict		

The class of wine should be 0