Project Development Phase Sprint 4

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Team ID	PNT2022TMID34405
Project Name	Machine Learning-Based Predictive Analytics for Aircraft Engine
Team Members	Abishek S (TeamLeader) Jishnu J.B (Member - 1) Madhavan M (Member - 2) Jithu Prasennan (Member - 3)

deploy.py:

```
deploy.py
     from flask import Flask, render_template, request
     import numpy as np
    import requests
    10
12
13
     header = {'Content-Type': 'application/json', 'Authorization': 'Bearer ' + mltoken}
    app = Flask(__name__)
16
    #home page
17
18
    @app.route('/')
19
     def home():
     return render_template('home.html')
23
    #signup page
@app.route('/register')
25
26
27
     def register():
    return render_template('register.html')
28
29
30
    #login page
@app.route('/login')
def login():
31
```

```
deploy.py
        def login():
            return render_template('login.html')
   35
   36
        #prediction page
        @app.route('/index')
   37
   38
        def index():
   39
           return render_template('index.html')
  40
  41
  42
        #result page prediction function
                                                                        103 PARTIE
        @app.route('/result', methods= ['POST'])
  43
  44
        def result():
  45
  46
                 if request.methods == 'POST':
  47
                     1=[]
  48
                     1.append(float(request.form['id']))
                     1.append(float(request.form['cycle']))
  49
  50
                     1.append(float(request.form['set1']))
                     1.append(float(request.form[
  51
                                                    set2']))
                     1.append(float(request.form['set3']))
  52
                     1.append(float(request.form['s1']))
  53
                     1.append(float(request.form['s2']))
  54
                     1.append(float(request.form[
  55
                     1.append(float(request.form['s4']))
  56
                     1.append(float(request.form[
  57
                                                    's5']))
                     1.append(float(request.form['s6']))
  58
                     1.append(float(request.form[
  59
                     1.append(float(request.form['s8']))
  60
                     1.append(float(request.form['s9']))
  61
                     1.append(float(request.form['s10']))
1.append(float(request.form['s11']))
  62
  63
deploy.py
                   l.append(float(request.form['s12']))
l.append(float(request.form['s13']))
65
66
                    l.append(float(request.form['514']))
                    l.append(float(request.form['s15']))
67
                   1.append(float(request.form['s16']))
1.append(float(request.form['s17']))
68
69
                   1.append(float(request.form['s18']))
1.append(float(request.form['s19']))
70
71
                   1.append(float(request.form['s20']))
1.append(float(request.form['s21']))
73
74
                   1.append(float(request.form['s22']))
                   print(1)
# NOTE: manually define and pass the array(s) of values to be scored in the next line
payload_scoring = {"input_data": [{"fields": ['f0','f1','f2','f3','f4','f5','f6','f7','f8','f9','f10','f11','f1
75
76
77
78
                   79
88
                   headers={'Authorization': 'Bearer
                                                          + mltoken})
                   print("Scoring response")
81
                   print(response_scoring.json())
82
83
                   pred = response_scoring.json()
84
                   output = pred['predictions'][0]['values'][0][0]
85
                   print(output)
86
87
                    if output >=1 and output <=2 :
88
                       return render_template('result.html',data="normal")
89
                   elif output >2:
                   return render_template('result.html',data="excess")
90
91
                               render template('result.html',data="low")
 91
 92
                       return render_template('result.html',data="low")
 93
 94
             return render_template('result.html',data="error")
            name ==" main
 95
```

app.run(debug=True)