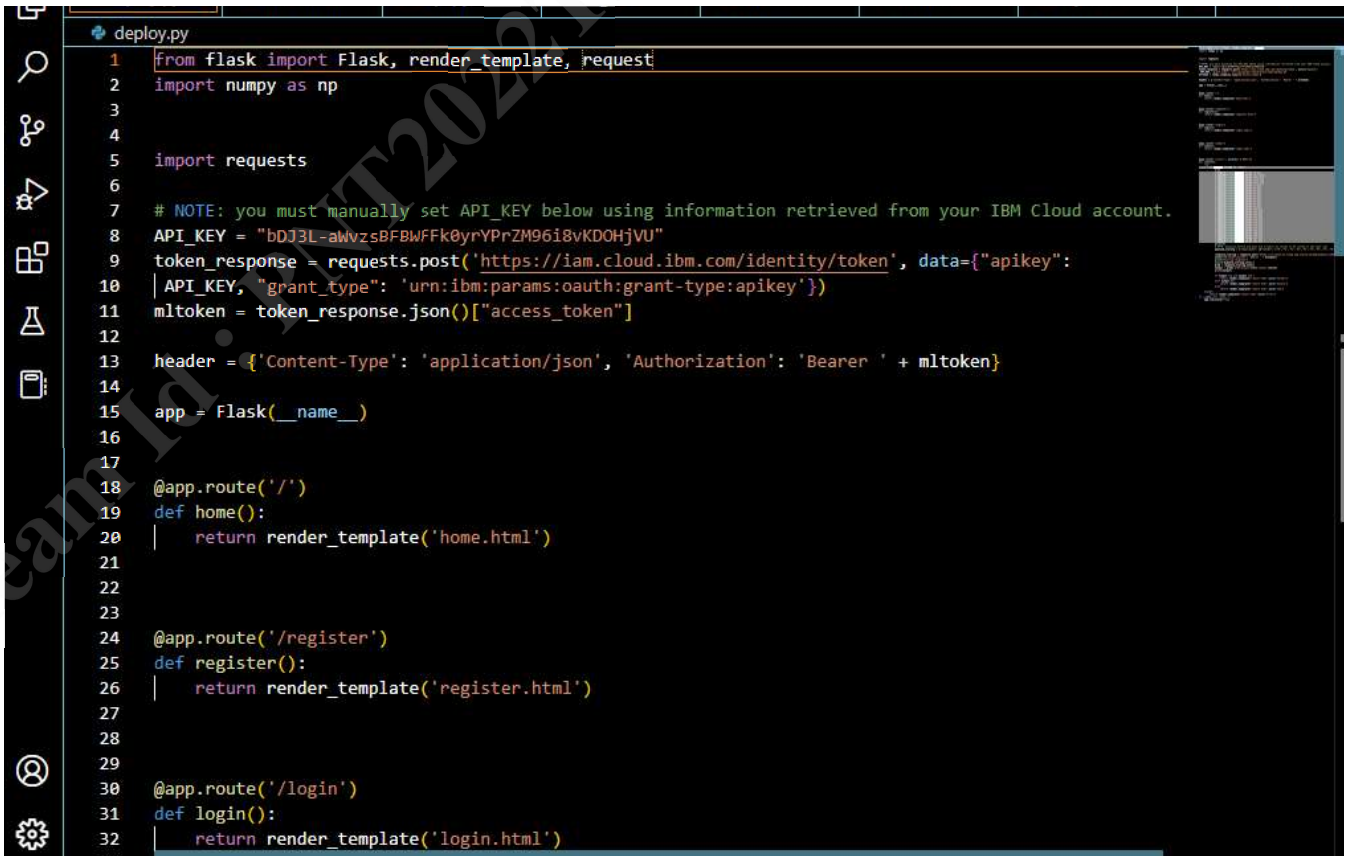
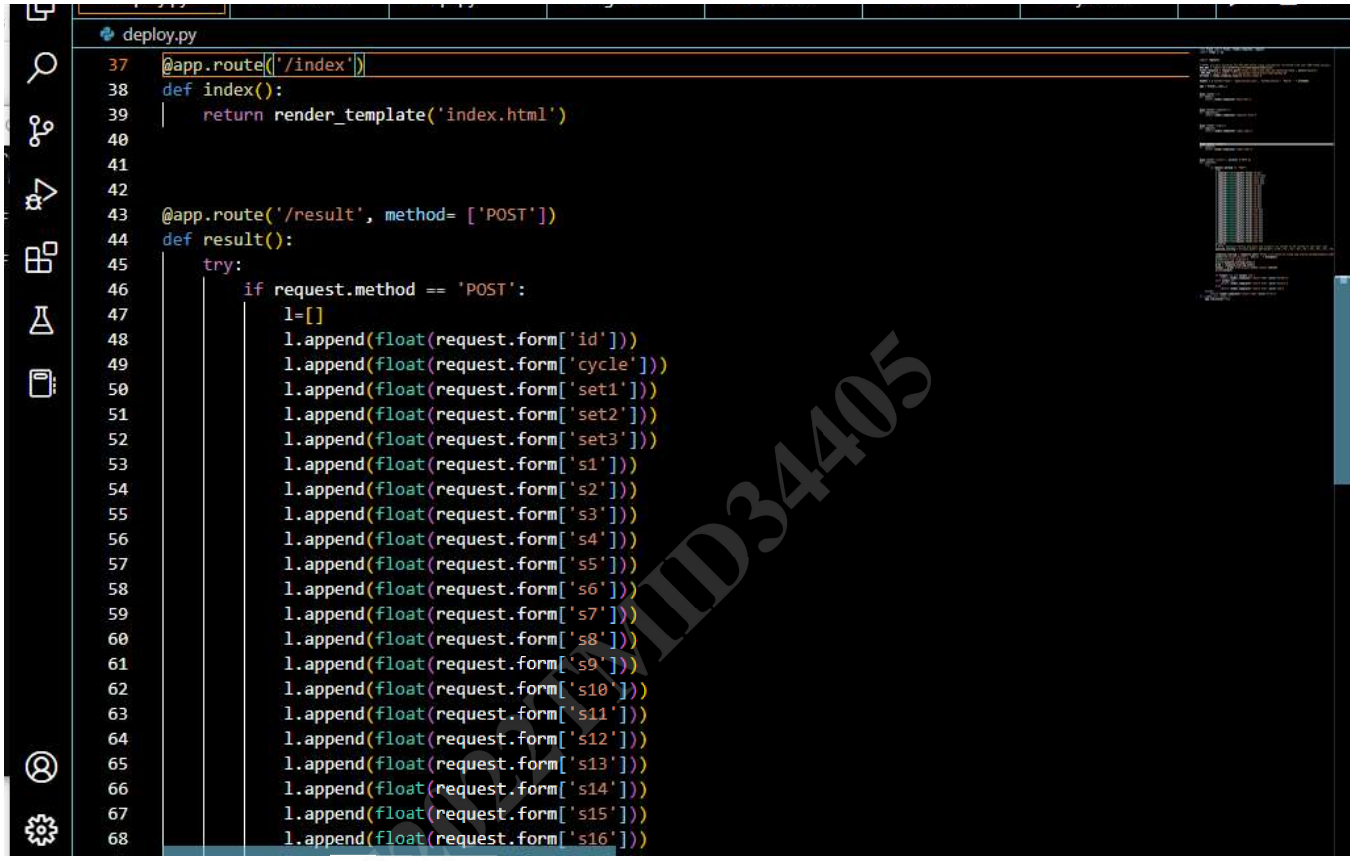
Project Development Phase
Sprint 4

Date	**17 November 2022**
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)**

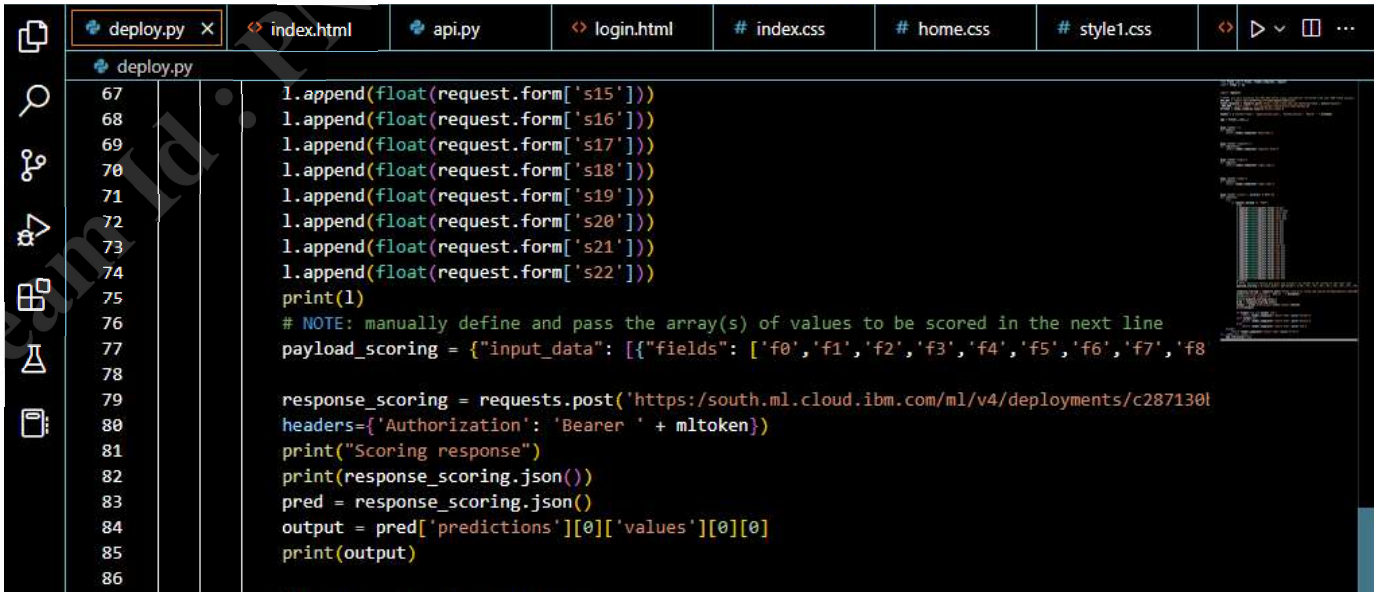
Deploy.py





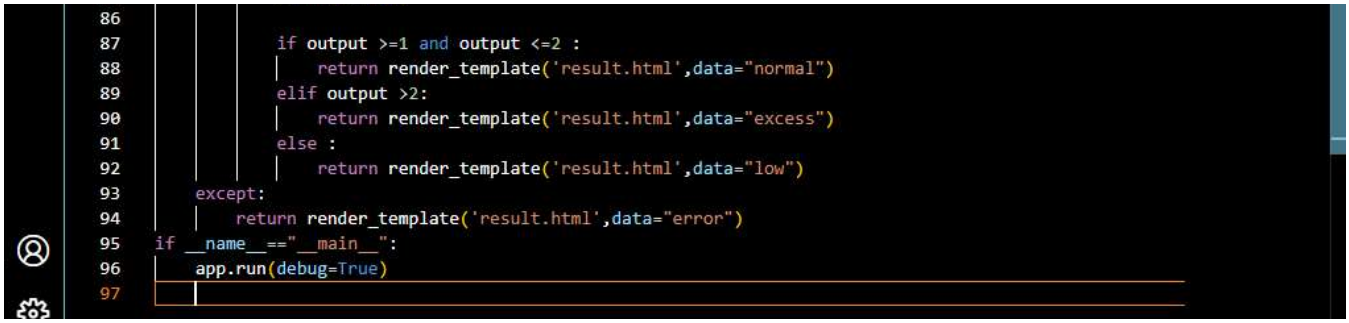
```python
@app.route('/index')
def index():
    return render_template('index.html')


@app.route('/result', method= ['POST'])
def result():
    try:
        if request.method == 'POST':
            l=[]
            l.append(float(request.form['id']))
            l.append(float(request.form['cycle']))
            l.append(float(request.form['set1']))
            l.append(float(request.form['set2']))
            l.append(float(request.form['set3']))
            l.append(float(request.form['s1']))
            l.append(float(request.form['s2']))
            l.append(float(request.form['s3']))
            l.append(float(request.form['s4']))
            l.append(float(request.form['s5']))
            l.append(float(request.form['s6']))
            l.append(float(request.form['s7']))
            l.append(float(request.form['s8']))
            l.append(float(request.form['s9']))
            l.append(float(request.form['s10']))
            l.append(float(request.form['s11']))
            l.append(float(request.form['s12']))
            l.append(float(request.form['s13']))
            l.append(float(request.form['s14']))
            l.append(float(request.form['s15']))
            l.append(float(request.form['s16']))
```



```python
            l.append(float(request.form['s15']))
            l.append(float(request.form['s16']))
            l.append(float(request.form['s17']))
            l.append(float(request.form['s18']))
            l.append(float(request.form['s19']))
            l.append(float(request.form['s20']))
            l.append(float(request.form['s21']))
            l.append(float(request.form['s22']))
            print(l)
            # 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

            response_scoring = requests.post('https:/south.ml.cloud.ibm.com/ml/v4/deployments/c287130
            headers={'Authorization': 'Bearer ' + mltoken})
            print("Scoring response")
            print(response_scoring.json())
            pred = response_scoring.json()
            output = pred['predictions'][0]['values'][0][0]
            print(output)
```



```
86
87              if output >=1 and output <=2 :
88                  return render_template('result.html',data="normal")
89              elif output >2:
90                  return render_template('result.html',data="excess")
91              else :
92                  return render_template('result.html',data="low")
93      except:
94          return render_template('result.html',data="error")
95  if __name__=="__main__":
96      app.run(debug=True)
97
```