Week4: Deployment on Flask

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The following are the steps involved in the Deployment on Flask.

Step 1:

- Found a sample Blood pressure Data
- Converted the .xlsx file format to .pkl using python code.
- Saved the file in model.pkl in the directory

```
import pandas as pan
import pickle
data = pan.read_excel('BP_simple_data.xlsx')

x1 = data.iloc[:_1:]
x2 = data.iloc[:_0:1]

reg = LinearRegression()
reg.fit(x1_x2)

prediction = reg.predict(x1)
pickle.dump(reg, open('model.pkl','wb'))
```

Step 2:

• Creating of the HTML (bp.html) and CSS (style.css) file

```
<iink href='https://fonts.googleapis.com/css?family=Pacifico' rel='stylesheet' type='text/css'>
<link href='https://fonts.googleapis.com/css?family=Arimo' rel='stylesheet' type='text/css'>
<link href='https://fonts.googleapis.com/css?family=Hind:300' rel='stylesheet' type='text/css'>
<link href='https://fonts.googleapis.com/css?family=Open+Sans+Condensed:300' rel='stylesheet' type='text/css'>
                      <link rel="stylesheet" href="{{ url_for('static', filename='css/style.css') }}">
                                  П
                                             * required
<input type="text" name="age" placeholder="* Age" required="required" />
# app.py × # model.py × # bp.html × # style.css ×

| style.css × | style.css × | style.css | style.css
                                                      <input type="text" name="pulse" placeholder="* Basal Pulse(b/m)" required="required" />
<input type="text" name="stress" placeholder="* Stress" required="required" />
                                                       <button class="button button1" type="submit" type = "submit">Predict My Blood Pressure </button>
        •
```

```
6 \text{ app.py} \times 6 \text{ model.py} \times 6 \text{ bp.html} \times 6 \text{ style.css} 
                                                            width: 20%;
padding: 10px 15px;
                                                                                                                                                                                    ち model.py × 🗂 bp.html × 🛗 style.css ×
         👸 арр.ру ×
                                                                                                                background-color: #b91a3a;
                                                                                                                  border: none;
                                                                                                                       border: 1px solid #15c6f9;
           12
                                                                                                                                     border-style: dotted;
                                                                                                                                   border-top-right-radius: 5px;
                                   4
```

Step 3:

Creating the Web Application app.py

Step 4: Deployment of the model using command prompt

- We open the command prompt
- Navigate to the location of the folder
- Run the file as: python3 app.py

```
Terminal: Local × + ∨

(venv) coder_me_ilyas@ilyasnayle:~/PycharmProjects/Week4_flask_development$ python3 app.py

* Serving Flask app 'app' (lazy loading)

* Environment: production

WARNING: This is a development server. Do not use it in a production deployment.

Use a production WSGI server instead.

* Debug mode: on

* Running on <a href="http://127.0.0.1:5000/">http://127.0.0.1:5000/</a> (Press CTRL+C to quit)

* Restarting with stat

* Debugger is active!

* Debugger PIN: 483-454-315
```

^{*} Running on http://127.0.0.1:5000 and the result will be as the following.

