## **Flask Deployment:**

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Batch: LISUM02

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Step 1: Checking and installing flask on local server

```
c:\Users\Amshu\repositories\Week 4>pip install python3-flask
Collecting python3-flask
ERROR: Could not find a version that satisfies the requirement python3-flask (from versions: none)
ERROR: No matching distribution found for python3-flask

C:\Users\Amshu\repositories\Week 4> python fask_app.py

* Serving Flask app "fask_app" (lazy loading)

* Environment: production
MARRING: This is a development server. Do not use it in a production deployment.
Use a production WSGI server instead.

* Debug mode: off

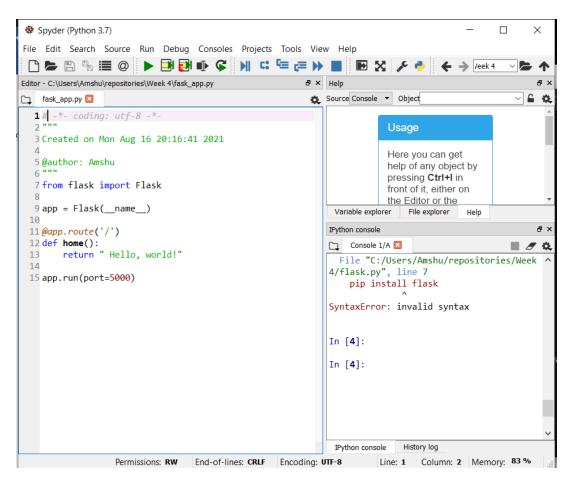
* Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)

C:\Users\Amshu\repositories\Week 4>pip install Flask
Requirement already satisfied: click>=0.15 in c:\users\amshu\anaconda3\lib\site-packages (from Flask) (7.0)
Requirement already satisfied: werkzeug>=0.15 in c:\users\amshu\anaconda3\lib\site-packages (from Flask) (0.15.4)
Requirement already satisfied: itsdangerous>=0.24 in c:\users\amshu\anaconda3\lib\site-packages (from Flask) (2.10.1)
Requirement already satisfied: MarkupSafe>=0.23 in c:\users\amshu\anaconda3\lib\site-packages (from Flask) (2.10.1)
Requirement already satisfied: MarkupSafe>=0.23 in c:\users\amshu\anaconda3\lib\site-packages (from Jinja2>=2.10.1->Flask) (1.1.1)

C:\Users\Amshu\repositories\Week 4>flask --version
Python 3.7.3
Flask 1.1.1
Merkzeug 0.15.4

C:\Users\Amshu\repositories\Week 4>
```

Step 2: Creating Python file to run flask server



Step 3: Run basic flask python file to see if flask server runs locally

```
File "flask.py", line 7
pip install flask

SyntaxError: invalid syntax

C:\Users\Amshu\repositories\Week 4> python flask.py
Traceback (most recent call last):
    file "flask.py", line 7, in <module>
        from flask import Flask
    File "C:\Users\Amshu\repositories\Week 4\flask.py", line 7, in <module>
        from flask import Flask

ImportError: cannot import name 'Flask' from 'flask' (C:\Users\Amshu\repositories\Week 4\flask.py)

C:\Users\Amshu\repositories\Week 4>apt-get install python3-flask
'apt-get' is not recognized as an internal or external command,
operable program or batch file.

C:\Users\Amshu\repositories\Week 4>pip install python3-flask
Collecting python3-flask
ERROR: Could not find a version that satisfies the requirement python3-flask (from versions: none)

ERROR: No matching distribution found for python3-flask

C:\Users\Amshu\repositories\Week 4> python fask_app.py

* Serving flask app "fask_app" (lazy loading)

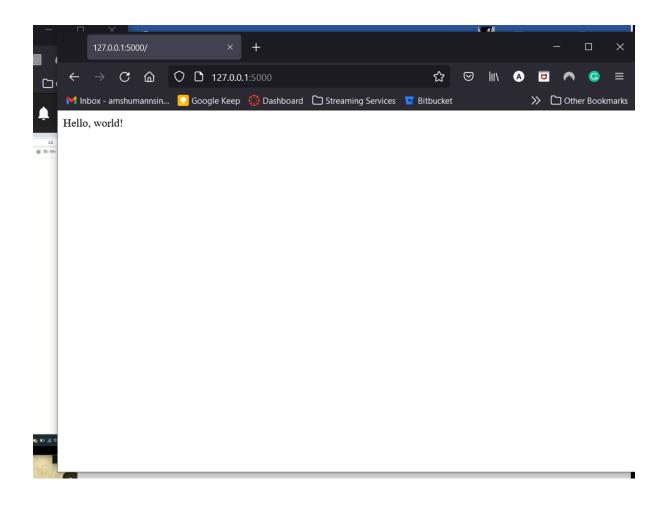
* Environment: production

MARIING: This is a development server. Do not use it in a production deployment.
Use a production WSGI server instead.

* Debug mode: off

* Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
```

Step 4: Check if server is running using the browser



Step 5: Create file which will be used to deploy the model on the server

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Spyder (Python 3.7)
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  2 import numpy as np
3 from flask import Flask, request,render_template
  4 import pickle
  6 app = Flask(__name__)
  7 model=pickle.load(open('finalized_model.pkl', 'rb'))
 9 @app.route('/')
 10 def home():
       return render_template('index.html')
 11
 12
13 @app.route('/predict',methods=['POST'])
.......
14 def predict():
15 int_features=[int(x) for x in request.form.values()]
16 final_features= [np.array(int_features)]
17 prediction= model.predict(final_features)
                                                                                                                                 I
 18
 19
       output=prediction
 20
 21 return render_template('index.html', prediction_text='Did the person survive {}'.format(output))
 23 if __name__ == "__main__":
       app.run(port=5000,debug=True)
 24
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```

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## Spyder (Python 3.7)

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 1
  2 <! DOCTYPE html>
  3 <html>
  4 <head>
  5 <title> ML Flask deployment</title>
  6 </head>
  7 <body>
      <div class="Login">
      <h1> Predict House Price</h1>
      10
 11
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 21
                                                                                                     U
 22
 23
                                                                                                      Ι
      <button type="submit">Predict</button>
 26
      </form>
 27
      <br>
 28
      {{ prediction_text }}
 29
      </div>
 30 </body>
 31 </html>
                                                                                                      Ι
```

## Step 6: Run python file

```
C:\Users\Amshu\repositorics\Week 4> python fask_app.py

C:\Users\Amshu\repositorics\Week 4> python fask_app.py

Serving Flask app "fask_app" (lazy loading)

Environment: production

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

Use a production WSGI server instead.

Debug mode: on

Restarting with stat

Debugger PIN: 265-740-194

Pobugger PIN: 265-740-194

Running on http://127.0.0.1:5000/ (Press CIRL+C to quit)

Pobugger PIN: 265-740-194

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Pobugger PIN: 265-740-194

Running on http://227.0.0.1:5000/ (Press CIRL+C to quit)

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```

Step 7: Open local server to run the model

