

Website Creation using Flask Application

The screenshot shows a web browser with multiple tabs. The active tab is titled '127.0.0.1:5000'. The page contains a form with three input fields for costs: 'R&D Spend' with a value of 50000, 'Administration Spend' with a value of 25000, and 'Marketing Spend' with a value of 75000. Below these fields are two buttons: 'Reset' and 'Submit'.

The screenshot shows the same web browser after clicking the 'Submit' button. The page now displays the result: 'The Profit for startup will be \$ 67805.5'. Below this text is a purple link labeled 'Go Back'.

Creating Virtual Environment in cmd.

```
C:\Windows\System32\cmd.exe - python myapp1.py
Microsoft Windows [Version 10.0.19045.2965]
(c) Microsoft Corporation. All rights reserved.

G:\FP>python -m venv .

G:\FP>.\Scripts\activate

(FP) G:\FP>pip freeze

(FP) G:\FP>python myapp1.py
Traceback (most recent call last):
  File "G:\FP\myapp1.py", line 1, in <module>
    from flask import Flask,render_template,request
ModuleNotFoundError: No module named 'flask'

(FP) G:\FP>pip install flask
Collecting flask
  Downloading flask-2.3.2-py3-none-any.whl (96 kB)
----- 96.9/96.9 kB 555.3 kB/s eta 0:00:00
Collecting Werkzeug>=2.3.3
  Downloading Werkzeug-2.3.4-py3-none-any.whl (242 kB)
----- 242.5/242.5 kB 90.1 kB/s eta 0:00:00
Collecting Jinja2>=3.1.2
  Using cached Jinja2-3.1.2-py3-none-any.whl (133 kB)
Collecting itsdangerous>=2.1.2
  Using cached itsdangerous-2.1.2-py3-none-any.whl (15 kB)
Collecting click>=8.1.3
  Using cached click-8.1.3-py3-none-any.whl (96 kB)
Collecting blinker>=1.6.2
  Downloading blinker-1.6.2-py3-none-any.whl (13 kB)
Collecting colorama
  Using cached colorama-0.4.6-py2.py3-none-any.whl (25 kB)
Collecting MarkupSafe>=2.0
  Using cached MarkupSafe-2.1.2-cp311-cp311-win_amd64.whl (16 kB)
Installing collected packages: MarkupSafe, itsdangerous, colorama, blinker, Werkzeug, Jinja2, click, flask
Successfully installed Jinja2-3.1.2 MarkupSafe-2.1.2 Werkzeug-2.3.4 blinker-1.6.2 click-8.1.3 colorama-0.4.6 flask-2.3.2 itsdangerous-2.1.2

[notice] A new release of pip available: 22.3.1 -> 23.1.2
[notice] To update, run: python.exe -m pip install --upgrade pip

(FP) G:\FP>pip freeze
blinker==1.6.2
click==8.1.3
colorama==0.4.6
```

```
C:\Windows\System32\cmd.exe - python myapp1.py
itsdangerous==2.1.2
Jinja2==3.1.2
MarkupSafe==2.1.2
Werkzeug==2.3.4

(FP) G:\FP>python myapp1.py
Traceback (most recent call last):
  File "G:\FP\myapp1.py", line 2, in <module>
    from mlmodel import *
ModuleNotFoundError: No module named 'mlmodel'

(FP) G:\FP>python myapp1.py
Traceback (most recent call last):
  File "G:\FP\myapp1.py", line 2, in <module>
    from mlmodel import *
  File "G:\FP\mlmodel.py", line 1, in <module>
    import numpy as np
ModuleNotFoundError: No module named 'numpy'

(FP) G:\FP>pip install numpy
Collecting numpy
  Using cached numpy-1.24.3-cp311-cp311-win_amd64.whl (14.8 MB)
Installing collected packages: numpy
Successfully installed numpy-1.24.3

[notice] A new release of pip available: 22.3.1 -> 23.1.2
[notice] To update, run: python.exe -m pip install --upgrade pip

(FP) G:\FP>pip install pandas
Collecting pandas
  Using cached pandas-2.0.1-cp311-cp311-win_amd64.whl (10.6 MB)
Collecting python-dateutil>=2.8.2
  Using cached python_dateutil-2.8.2-py2.py3-none-any.whl (247 kB)
Collecting pytz>=2020.1
  Using cached pytz-2023.3-py2.py3-none-any.whl (502 kB)
Collecting tzdata>=2022.1
  Using cached tzdata-2023.3-py2.py3-none-any.whl (341 kB)
Requirement already satisfied: numpy>=1.21.0 in g:\fp\lib\site-packages (from pandas) (1.24.3)
Collecting six>=1.5
  Using cached six-1.16.0-py2.py3-none-any.whl (11 kB)
Installing collected packages: pytz, tzdata, six, python-dateutil, pandas
Successfully installed pandas-2.0.1 python-dateutil-2.8.2 pytz-2023.3 six-1.16.0 tzdata-2023.3

[notice] A new release of pip available: 22.3.1 -> 23.1.2
```

```
C:\Windows\System32\cmd.exe - python myapp1.py

[notice] A new release of pip available: 22.3.1 -> 23.1.2
[notice] To update, run: python.exe -m pip install --upgrade pip

(FP) G:\FP>pip install scikit-learn
Collecting scikit-learn
  Using cached scikit_learn-1.2.2-cp311-cp311-win_amd64.whl (8.3 MB)
Requirement already satisfied: numpy>=1.17.3 in g:\fp\lib\site-packages (from scikit-learn) (1.24.3)
Collecting scipy>=1.3.2
  Using cached scipy-1.10.1-cp311-cp311-win_amd64.whl (42.2 MB)
Collecting joblib>=1.1.1
  Using cached joblib-1.2.0-py3-none-any.whl (297 kB)
Collecting threadpoolctl>=2.0.0
  Using cached threadpoolctl-3.1.0-py3-none-any.whl (14 kB)
Installing collected packages: threadpoolctl, scipy, joblib, scikit-learn
Successfully installed joblib-1.2.0 scikit-learn-1.2.2 scipy-1.10.1 threadpoolctl-3.1.0

[notice] A new release of pip available: 22.3.1 -> 23.1.2
[notice] To update, run: python.exe -m pip install --upgrade pip

(FP) G:\FP>pip freeze
blinker==1.6.2
click==8.1.3
colorama==0.4.6
Flask==2.3.2
itsdangerous==2.1.2
Jinja2==3.1.2
joblib==1.2.0
MarkupSafe==2.1.2
numpy==1.24.3
pandas==2.0.1
python-dateutil==2.8.2
pytz==2023.3
scikit-learn==1.2.2
scipy==1.10.1
six==1.16.0
threadpoolctl==3.1.0
tzdata==2023.3
Werkzeug==2.3.4

(FP) G:\FP>python myapp1.py
* Serving Flask app 'myapp1'
* Debug mode: on
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
```

```
C:\Windows\System32\cmd.exe - python myapp1.py
* Debug mode: on
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
* Running on http://127.0.0.1:5000
Press CTRL+C to quit
* Restarting with stat
* Debugger is active!
* Debugger PIN: 175-243-850
127.0.0.1 - - [21/May/2023 23:11:14] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [21/May/2023 23:11:14] "GET /favicon.ico HTTP/1.1" 404 -
[[50000 25000 75000]]
G:\FP\lib\site-packages\sklearn\base.py:439: UserWarning: X does not have valid feature names, but KNeighborsRegressor was fitted with feature names
  warnings.warn(
127.0.0.1 - - [21/May/2023 23:11:44] "POST /getprediction HTTP/1.1" 200 -
127.0.0.1 - - [21/May/2023 23:11:50] "GET / HTTP/1.1" 200 -
[[50000 25000 75000]]
G:\FP\lib\site-packages\sklearn\base.py:439: UserWarning: X does not have valid feature names, but KNeighborsRegressor was fitted with feature names
  warnings.warn(
127.0.0.1 - - [21/May/2023 23:12:56] "POST /getprediction HTTP/1.1" 200 -
```