## Week 4 - Deployment on Flask

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Installation of Flask

```
The default interactive shell is now zsh.
To update your account to use zsh, please run `chsh -s /bin/zsh`. For more details, please visit https://support.apple.com/kb/HT208050.
zhajideMacBook-Pro:~ yuhongchen$ pip install flask
Collecting flask
  Downloading Flask-2.3.2-py3-none-any.whl (96 kB)
                                                 96.9/96.9 kB 725.4 kB/s eta 0:00:00
Collecting Werkzeug>=2.3.3 (from flask)
  Downloading Werkzeug-2.3.6-py3-none-any.whl (242 kB)
                                               242.5/242.5 kB 958.3 kB/s eta 0:00:00
Collecting Jinja2>=3.1.2 (from flask)
  Downloading Jinja2-3.1.2-py3-none-any.whl (133 kB)
                                                  133.1/133.1 kB 1.1 MB/s eta 0:00:00
Collecting itsdangerous>=2.1.2 (from flask)
 Downloading itsdangerous-2.1.2-py3-none-any.whl (15 kB)
Collecting click>=8.1.3 (from flask)
  Downloading click-8.1.3-py3-none-any.whl (96 kB)
                                                 - 96.6/96.6 kB 1.1 MB/s eta 0:00:00
Collecting blinker>=1.6.2 (from flask)
Downloading blinker-1.6.2-py3-none-any.whl (13 kB) Collecting MarkupSafe>=2.0 (from Jinja2>=3.1.2->flask)
 Downloading MarkupSafe-2.1.3-cp311-cp311-macosx_10_9_x86_64.whl (13 kB)
Installing collected packages: MarkupSafe, itsdangerous, click, blinker, Werkzeug, Jin
ja2, flask
Successfully installed Jinja2-3.1.2 MarkupSafe-2.1.3 Werkzeug-2.3.6 blinker-1.6.2 clic
k-8.1.3 flask-2.3.2 itsdangerous-2.1.2
zhajideMacBook-Pro:~ yuhongchen$ flask --version
Python 3.11.0
Flask 2.3.2
Werkzeug 2.3.6
zhajideMacBook-Pro:~ yuhongchen$ [
```

 Download toy dataset from Kaggle, I downloaded one Amazon toy data

	A1	A1 $\forall$ $\bigcirc$ $f_X$ manufacturer				
	А	В	С	D	Е	F
1	manufactuı	price	stock	reviews	answers	
2	Hornby	3.42	5	15	1	
3	FunkyBuys	16.99		2	1	
4	ccf	9.99	2	17	2	
5	Hornby	39.99		1	2	
6	Hornby	32.19		3	2	
7	Generic	6.99		2	1	
8	Hornby	24.99		2	1	
9	Hornby	69.93	3	36	7	
10	Hornby	235.58	4	1	1	
11	Chuggingto	n	1	8	1	
12	Hornby	27.49	6	1	1	
13	Kato (USA)	273.6		1	1	
14	Bachmann	9.6	2	1	1	
15	Hornby	119.5	2	3	1	
16	Kato		18	1	1	
17	Kato		12	1	1	
18	Power Trains		2	2	1	
19	Chuggington		1	2	1	
20	Kato	17.08	26	1	1	
21						
22						

## • Now we have app.py

And model.py

```
⋈ Welcome
                            model.py ×
Users > yuhongchen > Desktop > work > summer intern > week4 > ₱ model.py > ...
      import numpy as np
      import pandas as pd
      import pickle
      import sklearn
      dataset = pd.read_csv('amazontoy.csv')
      dataset['manufacturer'].fillna(0, inplace=True)
      dataset['reviews'].fillna(dataset['reviews'].mean(), inplace=True)
      #Converting words to integer values
         return word_dict[word]'''
      from sklearn.linear_model import LinearRegression
      regressor = LinearRegression()
      pickle.dump(regressor, open('model.pkl','wb'))
```

Now run app.py using bash

```
[zhajideMacBook-Pro:week4v yuhongchen$ python3 app.py
 * Serving Flask app 'app'
 * 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: 116-112-706
```

• Now use the link open 127.0.0.1:5000

