Week 4 - Deployment on Flask

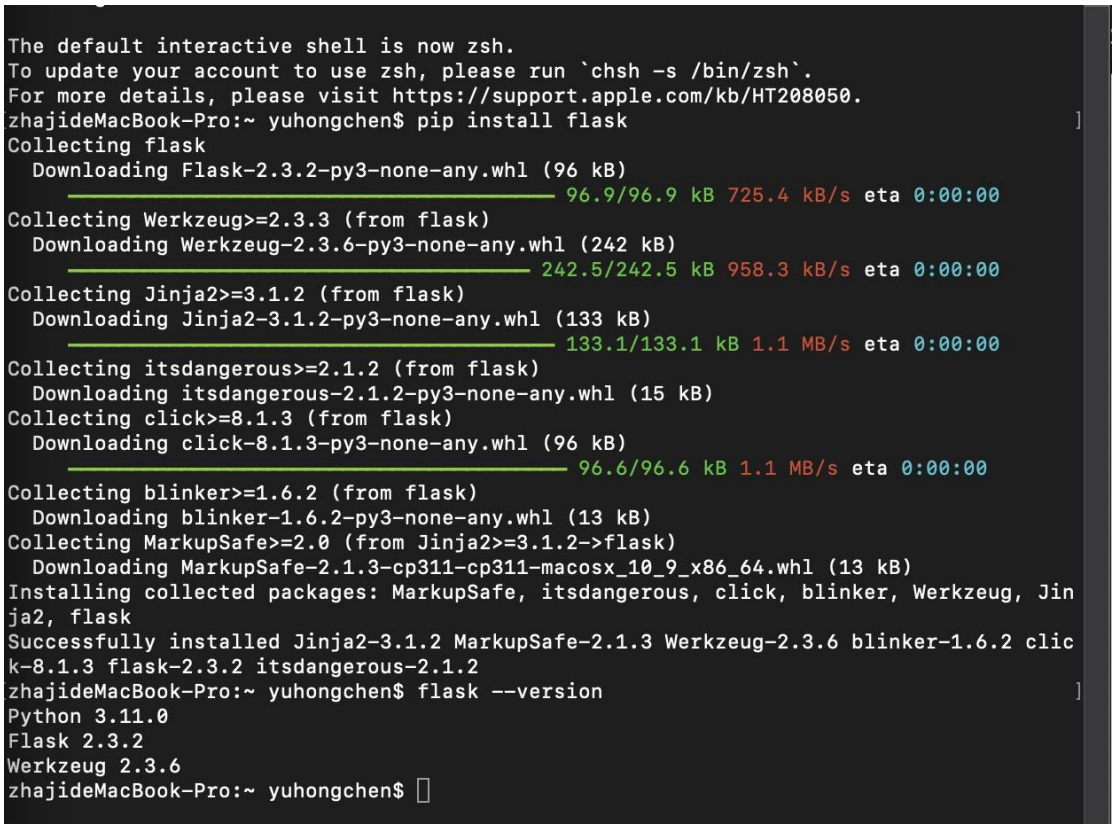
Name: Yuhong Chen

Batch Code: LISUM22

Submission Date: June 28th, 2023

Submitted to: Data Glacier-LISUM22

- Installation of Flask



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

A1 | manufacturer

	A	B	C	D	E	F
1	manufactu	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	Chuggington		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

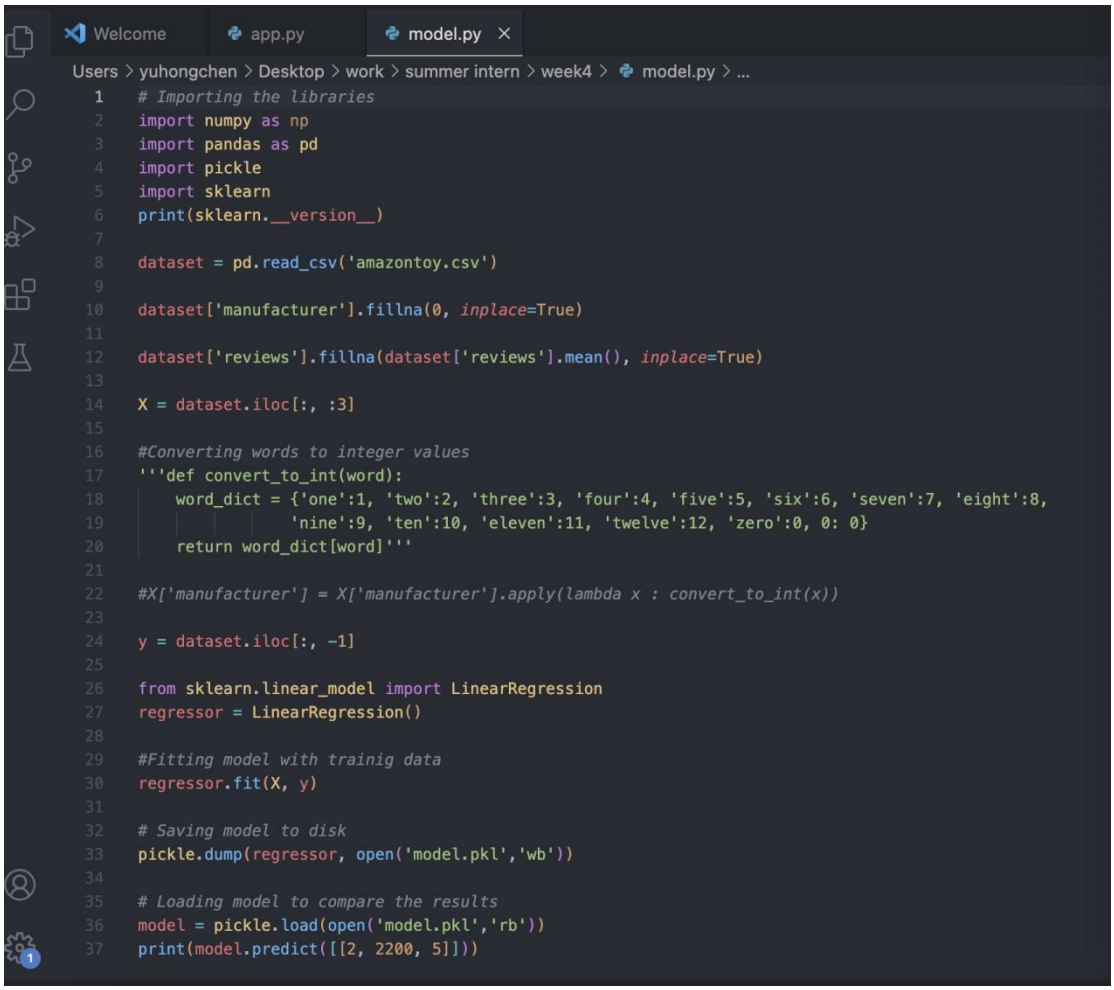
app.py

Welcome | app.py | model.py

Users > yuhongchen > Desktop > work > summer intern > week4 > app.py > ...

```python
import numpy as np
from flask import Flask, request,render_template
import pickle

app = Flask(__name__)
model = pickle.load(open('model.pkl', 'rb'))

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

@app.route('/predict',methods=['POST'])
def predict():
    '''
    For rendering results on HTML GUI
    '''
    int_features = [int(x) for x in request.form.values()]
    final_features = [np.array(int_features)]
    prediction = model.predict(final_features)

    output = round(prediction[0], 2)

    return render_template('index.html', prediction_text='House price should be $ {}'.format(output))

if __name__ == "__main__":
    app.run(debug=True)
```

- And model.py



- Now run app.py using bash

- Now use the link open 127.0.0.1:5000