Data Intake Report

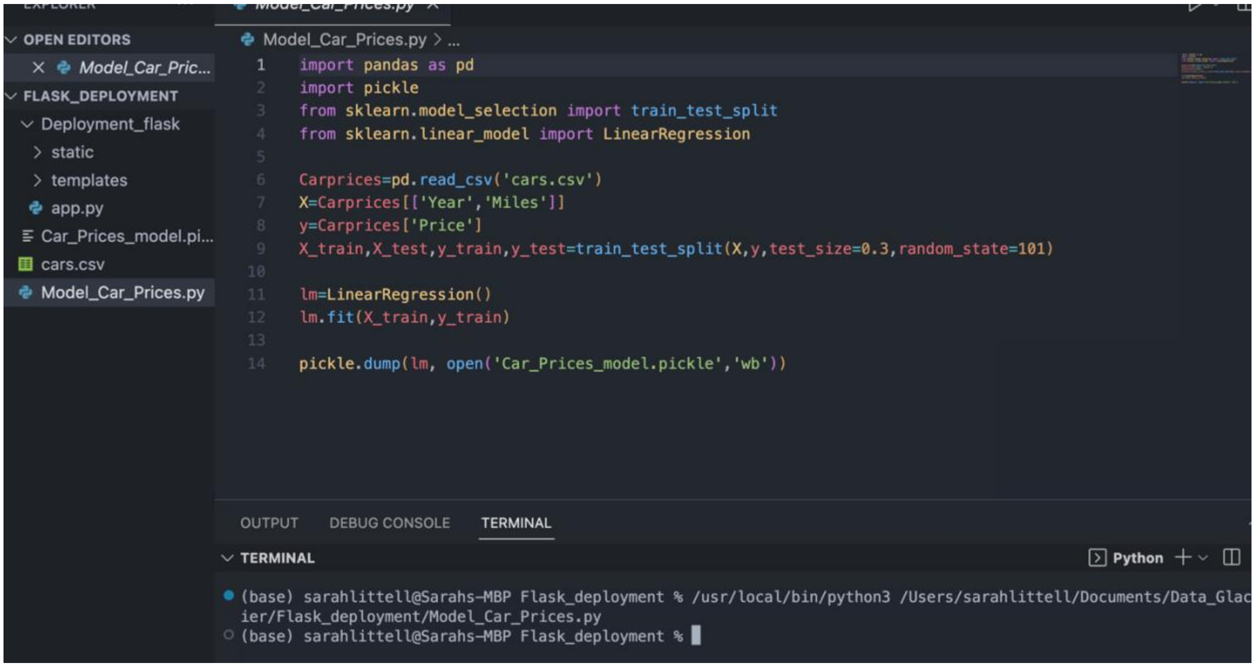
Name: Dummy Model Deployment on Flask
Report date: 1/28/2023
Internship Batch: LISUM17
Version: 1.0
Data intake by: Sarah Littell
Data intake reviewer: Sarah Littell
Data storage location: https://github.com/sarahlittell/Flask_Deployment_Dummy_Model

Tabular data details:

Total number of observations	2201
Total number of files	1
Total number of features	4
Base format of the file	.csv
Size of the data	731 KB

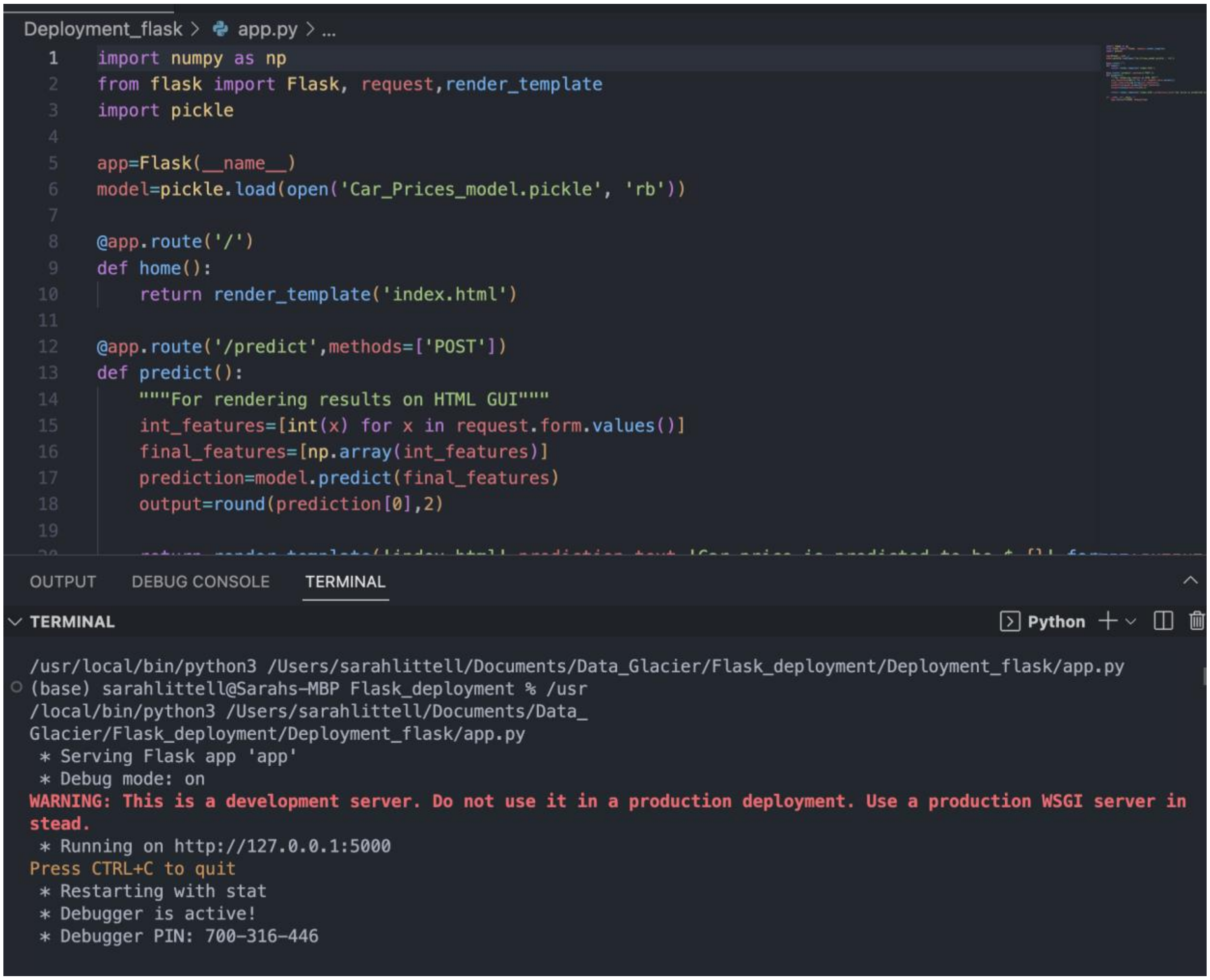
Proposed Approach:

- Assuming all data is real and relevant (i.e. no outliers to significantly skew results)
- Not doing dedup because it is possible to have valid duplicates with limited information given, and this is just a dummy model



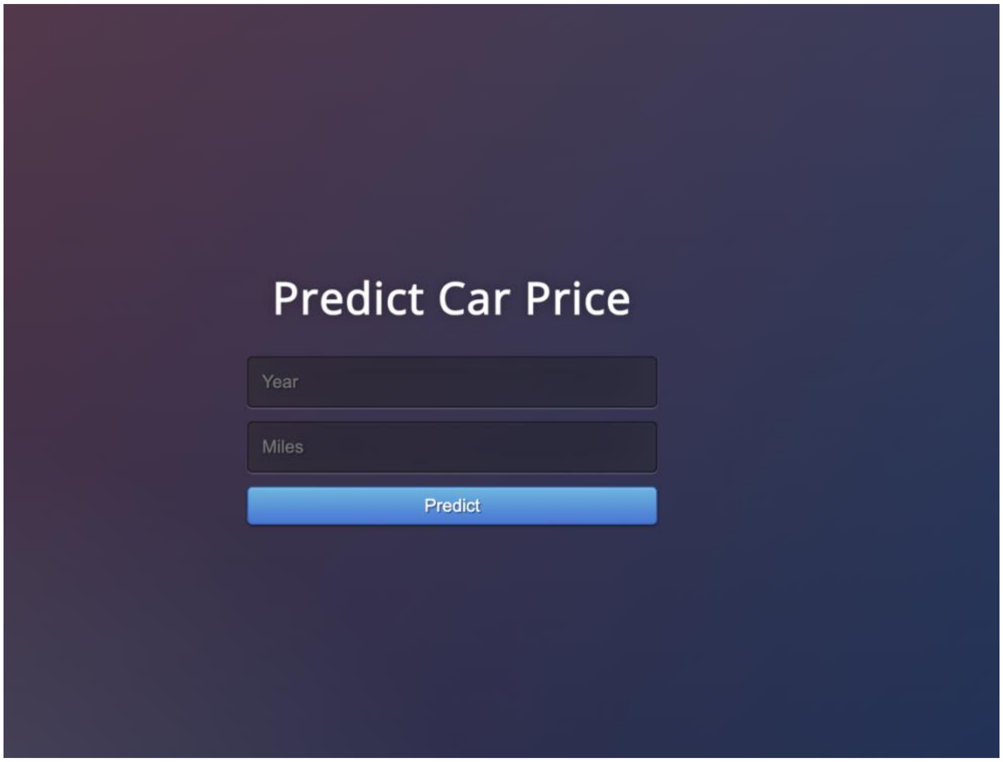
```python
import pandas as pd
import pickle
from sklearn.model_selection import train_test_split
from sklearn.linear_model import LinearRegression

Carprices=pd.read_csv('cars.csv')
X=Carprices[['Year','Miles']]
y=Carprices['Price']
X_train,X_test,y_train,y_test=train_test_split(X,y,test_size=0.3,random_state=101)

lm=LinearRegression()
lm.fit(X_train,y_train)

pickle.dump(lm, open('Car_Prices_model.pickle','wb'))
```

```
(base) sarahlittell@Sarahs-MBP Flask_deployment % /usr/local/bin/python3 /Users/sarahlittell/Documents/Data_Glac
ier/Flask_deployment/Model_Car_Prices.py
(base) sarahlittell@Sarahs-MBP Flask_deployment %
```

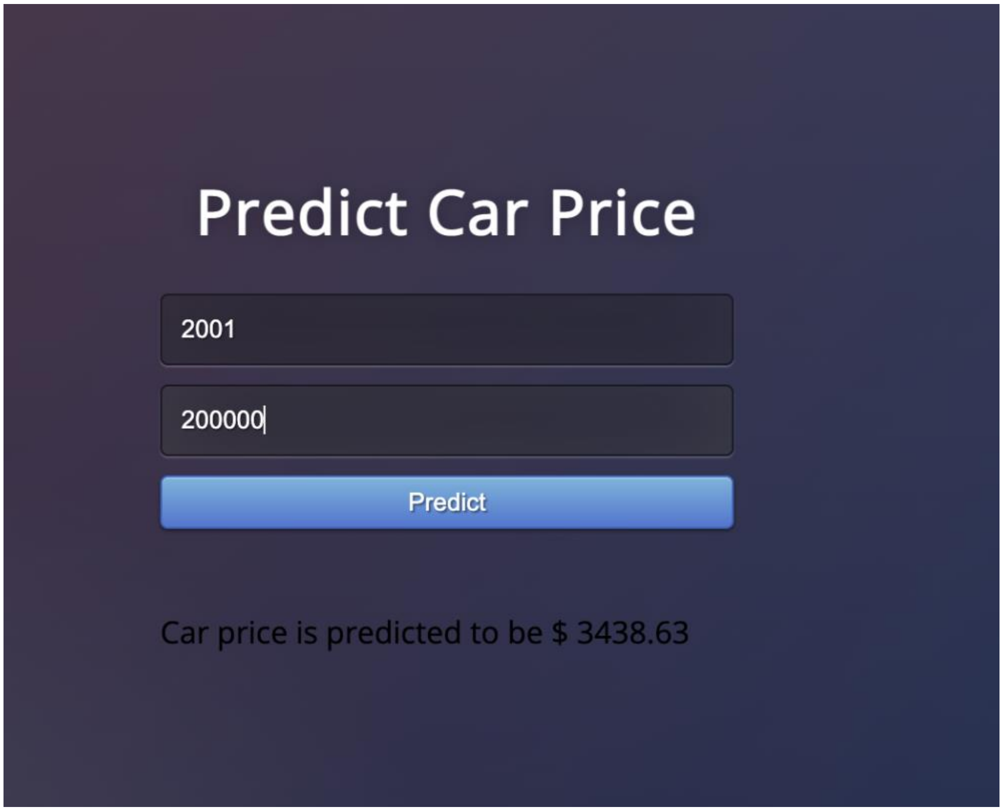


```python
import numpy as np
from flask import Flask, request,render_template
import pickle

app=Flask(__name__)
model=pickle.load(open('Car_Prices_model.pickle', '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='Car price is predicted to be $ {}'.format(output
```

```
/usr/local/bin/python3 /Users/sarahlittell/Documents/Data_Glacier/Flask_deployment/Deployment_flask/app.py
(base) sarahlittell@Sarahs-MBP Flask_deployment % /usr
/local/bin/python3 /Users/sarahlittell/Documents/Data_
Glacier/Flask_deployment/Deployment_flask/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 in
stead.
 * Running on http://127.0.0.1:5000
Press CTRL+C to quit
 * Restarting with stat
 * Debugger is active!
 * Debugger PIN: 700-316-446
```



Predict Car Price



Predict Car Price

2001

200000

Car price is predicted to be $ 3438.63