Week 4: Deployment on flask

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Submitted to: https://github.com/Shouqqz/DG--Week4.git

Choosing a simple data set.
 Our job is to build ML model to predict the salary

| | А | В | С | D | |
|---|------------|------------|-----------------|--------|--|
| 1 | experience | test_score | interview_score | salary | |
| 2 | 0 | 8 | 9 | 50000 | |
| 3 | 0 | 8 | 6 | 45000 | |
| 4 | 5 | 6 | 7 | 60000 | |
| 5 | 2 | 10 | 10 | 65000 | |
| 6 | 7 | 9 | 6 | 70000 | |
| 7 | 3 | 7 | 10 | 62000 | |
| 8 | 10 | 7 | 7 | 72000 | |
| 9 | 11 | 7 | 8 | 80000 | |
| | | | | | |

2. Saving the model.

Importing pandas, pickle and csv file

```
import pandas as pd
import pickle

data = pd.read_csv('hiring.csv')
```

Split our data into training and testing datasets

```
X = data.iloc[:, :3]
y = data.iloc[:, -1]
```

```
from sklearn.linear_model import LinearRegression
regressor = LinearRegression()
regressor.fit(X, y)
```

And finally pickle our model

```
pickle_file = open('model.pkl','wb')
pickle.dump(regressor,pickle_file)
```

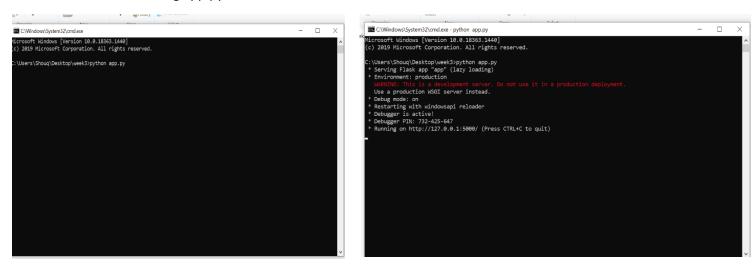
3. Deployment using Flask.

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

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

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

Running app.py in terminal window.



Finally copying the link and paste it in the browser.

