Week 5 - Cloud and API Deployment

Task:

- 1. Select any toy data (simple data)
- 2. Save the model
- 3. Deploy the model on any cloud eg: Heroku, AWS, GCP, Azure (Deployment should be API based as well as web app)
- 4. Create pdf document (Name, Batch code, Submission date, Submitted to) which should contain snapshot of each step of deployment)
- 5. Upload the document and code to Github
- 6. Submit the URL of the uploaded document.

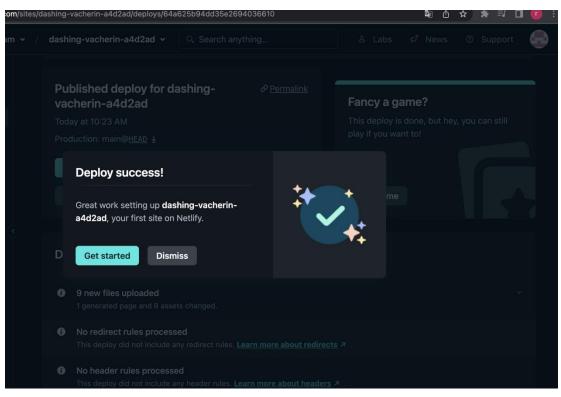
Use free credits(trial or student account) of AWS, GCP, Azure to deploy the app.

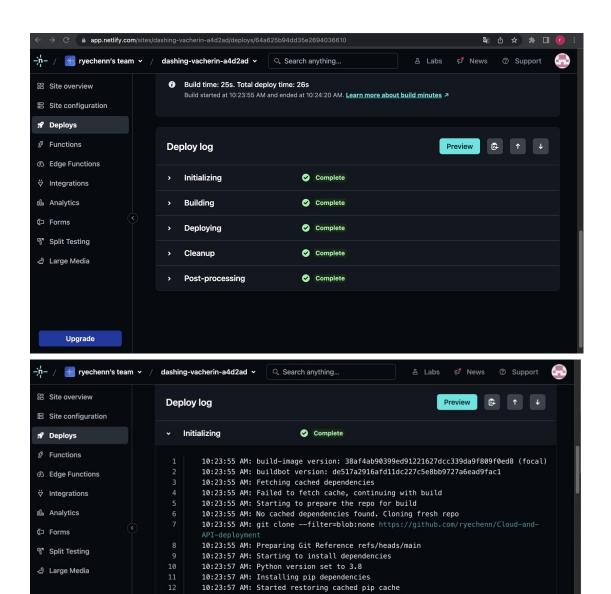
Name: Yuhong Chen Batch Code: LISUM22

Submission date: July 4th, 2023 Submitted to: Data Glacier by Github

Snapshots

```
Cloud-and-API-deployment / model.py
Code
        Blame 35 lines (24 loc) · 931 Bytes
        dataset = pd.read_csv('price.csv')
        dataset['bed_room'].fillna(0, inplace=True)
        dataset['area'].fillna(dataset['area'].mean(), inplace=True)
        X = dataset.iloc[:, :3]
        #Converting words to integer values
        def convert_to_int(word):
            word_dict = {'one':1, 'two':2, 'three':3, 'four':4, 'five':5, 'six':6, 'seven':7, 'eight':8,
                         'nine':9, 'ten':10, 'eleven':11, 'twelve':12, 'zero':0, 0: 0}
            return word_dict[word]
        X['bed_room'] = X['bed_room'].apply(lambda x : convert_to_int(x))
        y = dataset.iloc[:, -1]
        from \ \ \textbf{sklearn.linear\_model} \ \ import \ \ LinearRegression
        regressor = LinearRegression()
        #Fitting model with trainig data
        regressor.fit(X, y)
        pickle.dump(regressor, open('model.pkl','wb'))
        model = pickle.load(open('model.pkl','rb'))
        print(model.predict([[2, 2200, 5]]))
```





10:23:57 AM: Started restoring cached pip cache 10:23:58 AM: Collecting Flask==1.1.1

Upgrade

10:23:58 AM: Downloading Flask-1.1.1-py2.py3-none-any.whl (94 kB)
10:23:58 AM: Collecting gunicorn==19.9.0
10:23:58 AM: Downloading gunicorn-19.9.0-py2.py3-none-any.whl (112 kB)
10:23:58 AM: Collecting itsdangerous==1.1.0
10:23:58 AM: Downloading itsdangerous-1.1.0-py2.py3-none-any.whl (16 kB)

