CLOUD DEPLOYMENT ON HEROKU

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The same app.py and model was used along with the same data(real estate.csv)

```
import numpy as np
from flask import Flask, request, jsonify, 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():
    float_features = [float(x) for x in request.form.values()]
    final_features = [np.array(float_features)]
    prediction = model.predict(final_features)
    output = prediction[0]
   return render_template('index.html', prediction_text='ESTIMATED PRICE IS {}'.format(output))
@app.route('/predict_api',methods=['POST'])
def predict_api():
    data = request.get_json(force=True)
    prediction = model.predict([np.array(list(data.values()))])
    output = prediction[0]
  return jsonify(output)
if __name__ == "__main__":
    app.run(debug=True)
```

A Procfile was created, and the meaning of the present text is as follows: web means it's a web app, gunicorn is a gateway server interface. The first app is the app.py and the second app is the name of the variable.

```
ሃ Procfile
1 web: gunicorn app:app
```

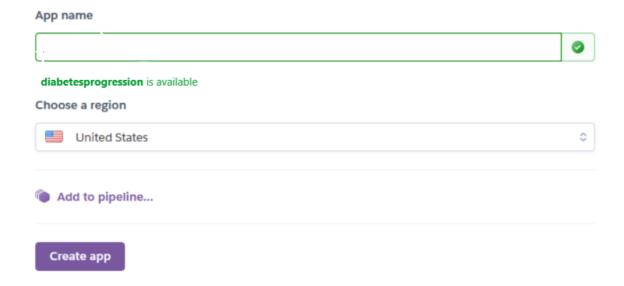
Next we need a requirements.txt file containing all the libraries we need download through Heroku. Heroku reads this file and downloads the required libraries to run the app.

```
F requirements.txt

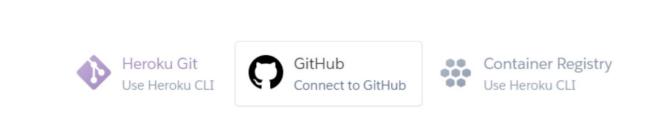
1   Flask==1.1.1
2   gunicorn==19.9.0
3   itsdangerous==1.1.0
4   Jinja2==2.10.1
5   MarkupSafe==1.1.1
6   Werkzeug==0.15.5
7   numpy>=1.9.2
8   scipy>=0.15.1
9   scikit-learn>=0.18
10   matplotlib>=1.4.3
11   pandas>=0.19
```

Now I created the github repository where I saved the all the files in the repository.

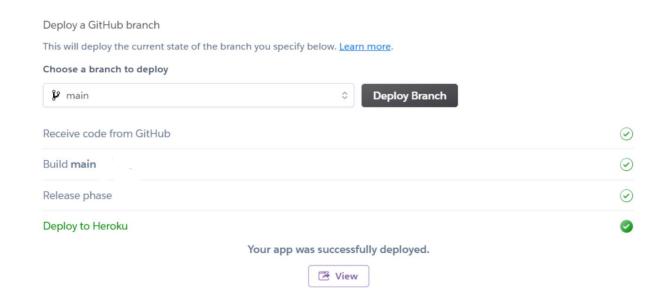
Now we need to create an account on Heroku, after signing up, click on new and create an app and follow as shown below. The region could be left as US.



Now, when asked for deployment, just choose GitHub and connect with your repository.



After getting connected, they will ask for deploy branch manually or automatically, I prefer manually. Click on manually. Once successful, click on View at the bottom as shown.



Finally a new tab will open containing your application.

