Week 5: Cloud Deployment on Heroku

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Batch Code: **LISUM14**

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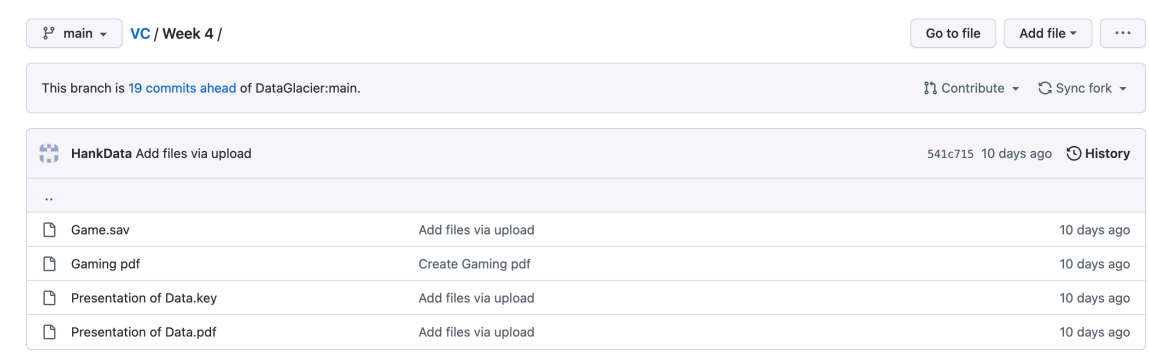
Submitted to: **Data Glacier**

Step 1: Test the Flask API

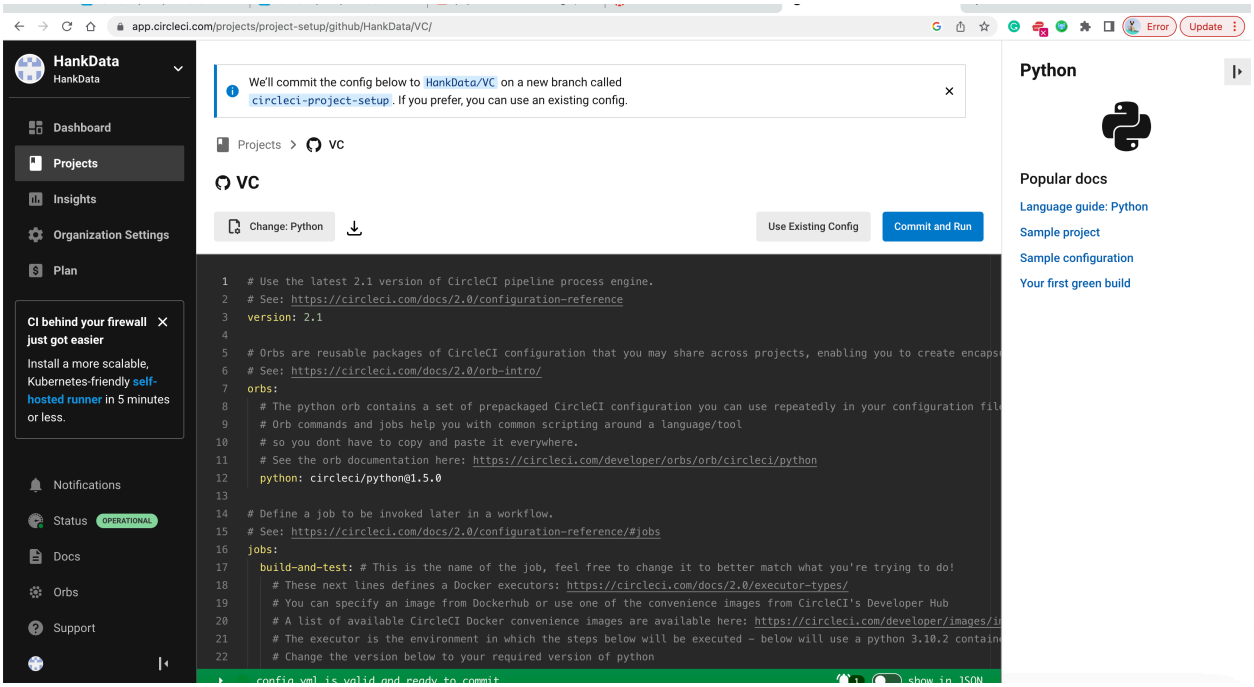
```python
import numpy as np
import pickle
from flask import Flask, request, render_template

app = Flask(__name__)
model = pickle.load(open('/Users/han-fulin/VC/Week 4/Game.sav', 'rb'))

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

@app.route('/predict', methods=['POST'])
def predict():
        flag = False
        if request.method == "POST":
                bedroom = int(request.form.get('bedroom'))
                bathroom = int(request.form.get('bathroom'))
                surface = float(request.form.get('surface'))
                longitude = float(request.form.get('longitude'))
                latitude = float(request.form.get('latitude'))
                ptype = int(request.form.get('ptype'))

                raw_features = [bathroom, bedroom, surface, longitude, latitude, ptype]
                features = [np.array(raw_features)]

                prediction = model.predict(features)
                output = round(prediction[0], 2)
                return render_template('index.html',flag=True, prediction_text=f'House price should be €{output}.')
```

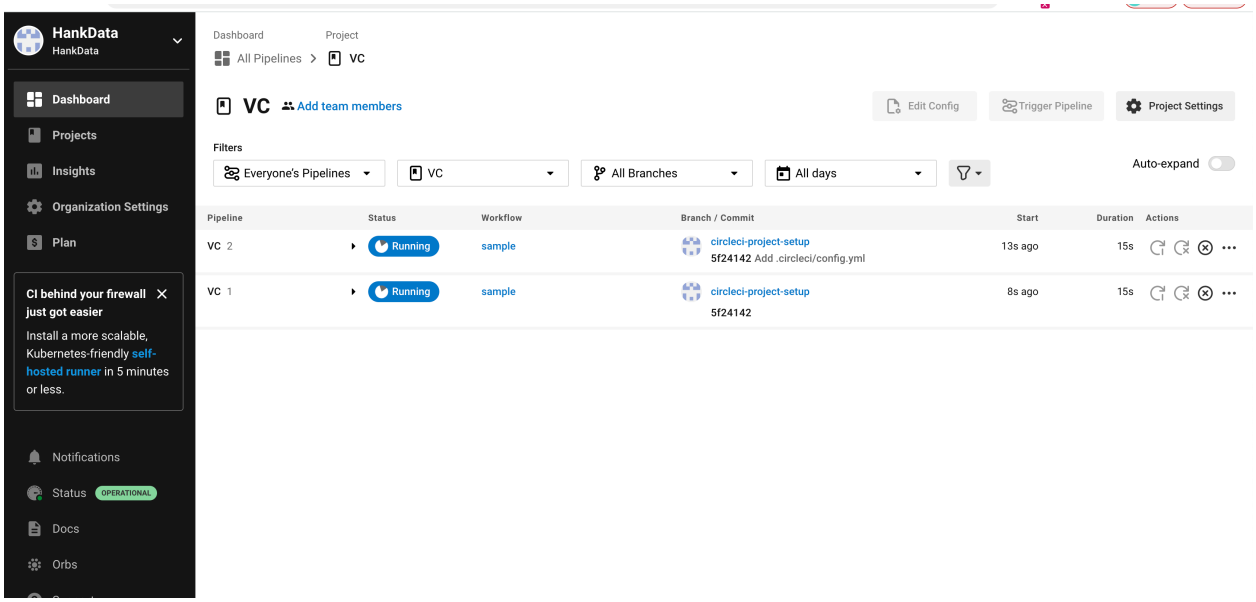
Step 2: Save the model



Step 3: Create a Branch for heroku deploy and create profile for it

```
Last login: Mon Nov  7 15:48:31 on ttys000

The default interactive shell is now zsh.
To update your account to use zsh, please run `chsh -s /bin/zsh`.
For more details, please visit https://support.apple.com/kb/HT208050.
Han-Fude-MacBook-Pro:~ han-fulin$ git model checkout - model deploy
```





Step 4: Select the branch that application is written and deploy. Let heroku run install and deploy https://dublin-house-predict.herokuapp.com/