Data Intake Report

Name: Cloud and API deployment
Report date: 11-05-2022
Internship Batch: LISUM14
Version:<1.0>
Data intake by: Lakshmi Iswara Chandra Vidyasagar
Submitted to: Data Glacier

```python
# Importing the libraries
import numpy as np
import pandas as pd
import pickle

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 sklearn.linear_model import LinearRegression
regressor = LinearRegression()

#Fitting model with trainig data
regressor.fit(X, y)
```

```python
import numpy as np
from flask import Flask, request, 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():
    '''
    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='House price should be $ {}'.format(output))

if __name__ == "__main__":
    app.run(debug=True)
```

Personal ⇅ ❯ ⬡ heroku-demo-app10 ☆   Open app   More ⇅

GitHub ◯ LakshmiVidyasagar/Heroku_data

Overview   Resources   **Deploy**   Metrics   Activity   Access   Settings

Add this app to a pipeline

Create a new pipeline or choose an existing one and add this app to a stage in it.

Add this app to a stage in a pipeline to enable additional features

Pipelines let you connect multiple apps together and **promote code** between them. Learn more.

Pipelines connected to GitHub can enable **review apps**, and create apps for new pull requests. Learn more.

🌐 Choose a pipeline

Deployment method

Heroku Git
Use Heroku CLI

GitHub
Connected ✓

Container Registry
Use Heroku CLI

App connected to GitHub

Code diffs, manual and auto deploys are available for this app.

Connected to ⬒ **LakshmiVidyasagar/Heroku_data** by 🐾 **LakshmiVidyasagar**   Disconnect...

⟳ Releases in the activity feed link to GitHub to view commit diffs

Automatic deploys

Enables a chosen branch to be automatically deployed to this app.

> You can now change your main deploy branch from "master" to "main" for both manual and automatic deploys, please follow the instructions here.

Enable automatic deploys from GitHub

Every push to the branch you specify here will deploy a new version of this app. **Deploys happen automatically:** be sure that this branch is always in a deployable state and any tests have passed before you push. Learn more

Choose a branch to deploy

⑂ main ⇅

☐ Wait for CI to pass before deploy

Only enable this option if you have a Continuous Integration service configured on your repo.

[Enable Automatic Deploys]

Manual deploy

Deploy the current state of a branch to this app.

Deploy a GitHub branch

This will deploy the current state of the branch you specify below. Learn more

Choose a branch to deploy

⑂ main ⇅   [Deploy Branch]

Receive code from GitHub   ⊘

Build **main** `f008e036`   ⊘

Only enable this option if you have a Continuous Integration service configured on your repo.

[Enable Automatic Deploys]

Manual deploy

Deploy the current state of a branch to this app.

Deploy a GitHub branch

This will deploy the current state of the branch you specify below. Learn more

Choose a branch to deploy

⑂ main ⇅   [Deploy Branch]

Receive code from GitHub   ⊘

Build **main** `f008e036`   ⊘

Release phase   ⊘

Deploy to Heroku   ✓

Your app was successfully deployed.

[⧉ View]

Predict House Price

Number of Rooms

Area (in square feet)

House Age

Predict

House price should be $ 44344.56