```
File Edit Format Run Options Window Help
import numpy as np
import pandas as pd
import pickle
from sklearn.model selection import train test split
from sklearn.linear model import LogisticRegression
from sklearn.metrics import classification report
election data = pd.read csv('2020 Election Demographics.csv')
sex = pd.get dummies(election data['Sex'], drop first=True)
marital status = pd.get dummies(election data['Marital Status'],drop first=True)
race = pd.qet dummies(election data['Race'], drop first=True)
age = pd.get dummies(election data['Age'], drop first=True)
education = pd.get dummies(election data['Education'], drop first=True)
income = pd.qet dummies(election data['Income'],drop first=True)
election data2 = pd.concat([sex, race, age, education, income, marital status, election data['Candidate']], axis=1)
logmodel = LogisticRegression()
logmodel.fit(election data2.drop('Candidate', axis=1), election data2['Candidate'])
# Saving model to disk
pickle.dump(logmodel, open('logmodel.pkl','wb'))
# Loading model to compare the results
logmodel2 = pickle.load(open('logmodel.pkl','rb'))
print(logmodel2.predict([[1, 0, 0, 1, 0, 0, 1, 1, 0, 1, 0, 0, 1, 0]]))
```

election model.py - C:\Users\filto\Desktop\Heroku-deployment\election model.py (3.10.0)

```
transitioner.py - C:\Users\filto\Desktop\Heroku-deployment\transitioner.py (3.10.0)
File Edit Format Run Options Window Help
def Transitioner(input list):
    predict list = []
    if input list[0] == 'Male':
        predict list.append(1)
    elif input list[0] == 'Female':
        predict list.append(0)
    if input list[1] == 'White':
        predict list.append(0)
        predict list.append(0)
        predict list.append(1)
    elif input list[1] == 'Hispanic':
        predict list.append(1)
        predict list.append(0)
        predict list.append(0)
    elif input list[1] == 'Black':
        predict list.append(0)
        predict list.append(0)
        predict list.append(0)
    else:
        predict list.append(0)
        predict list.append(1)
        predict list.append(0)
    if (int(input list[2]) >= 30) and (int(input list[2]) <= 44):
        predict list.append(1)
        predict list.append(0)
        predict list.append(0)
    elif (int(input list[2]) >= 45) and (int(input list[2]) <= 59):</pre>
        predict list.append(0)
        predict list.append(1)
        predict list.append(0)
    elif int(input list[2]) >= 60:
        predict list.append(0)
        predict list.append(0)
        predict list.append(1)
    elif (int(input list[2]) >= 18) and (int(input list[2]) <= 29):</pre>
        predict list.append(0)
        predict list.append(0)
        predict list.append(0)
    if input list[3] == 'No college':
        predict list.append(1)
        predict list.append(0)
    elif input list[3] == 'Postgraduate':
```

```
app.py - C:\Users\filto\Desktop\Heroku-deployment\app.py (3.10.0)
File Edit Format Run Options Window Help
import numpy as np
from flask import Flask, request, render template
import pickle
from transitioner import Transitioner
app = Flask( name )
logmodel = pickle.load(open('logmodel.pkl', 'rb'))
@app.route('/')
def home():
    return render template('index2.html')
@app.route('/predict', methods=['POST'])
def predict():
    111
    For rendering results on HTML GUI
    111
    features = [x for x in request.form.values()]
    #final features = [np.array(features)]
    prediction = logmodel.predict([Transitioner(features)])
    output = prediction[0]
    return render template('index2.html', prediction text='Your choice for president should be {}'.format(output))
if name == " main ":
    app.run (debug=True)
```

```
index2 - Notepad
File Edit Format View Help
<!DOCTYPE html>
<html>
<head>
  <meta charset="UTF-8">
  <title>ML API</title>
 <link href='https://fonts.googleapis.com/css?family=Pacifico' rel='stylesheet' type='text/css'>
<link href='https://fonts.googleapis.com/css?family=Arimo' rel='stylesheet' type='text/css'>
<link href='https://fonts.googleapis.com/css?family=Hind:300' rel='stylesheet' type='text/css'>
<link href='https://fonts.googleapis.com/css?family=Open+Sans+Condensed:300' rel='stylesheet' type='text/css'>
<link rel="stylesheet" href="{{ url for('static', filename='css/style.css') }}">
</head>
<body>
 <div class="login">
        <h1>Predict Your 2020 Election Vote</h1>
     <!-- Main Input For Receiving Ouerv to our ML -->
    <form action="{{ url for('predict')}}"method="post">
        <input type="text" name="Sex" placeholder="Sex" required="required" />
        <input type="text" name="Race" placeholder="Race" required="required" />
        <input type="text" name="Age" placeholder="Age" required="required" />
        <input type="text" name="Education" placeholder="Education" required="required" />
        <input type="text" name="Income" placeholder="Income" required="required" />
        <input type="text" name="Marital Status" placeholder="Marital Status" required="required" />
        <button type="submit" class="btn btn-primary btn-block btn-large">Predict</button>
    </form>
   <br>
   <br>>
   {{ prediction_text }}
 </div>
```

App connected to GitHub

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

Connected to Edward-Guangyan-Huang/Heroku-deployment by Edward-Guangyan-Huang

Disconnect...

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

NOTE: I was having problems providing my payment information, so I used my friend Edward's Github account to complete this activity

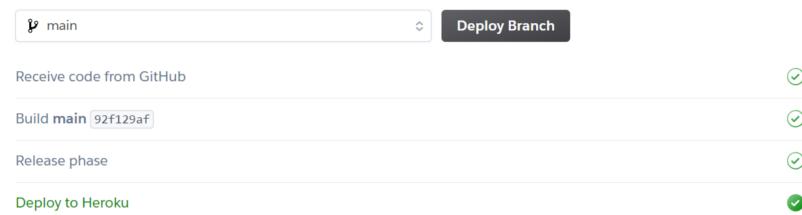
Manual deploy

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



Your app was successfully deployed.





× 🄌 python - Heroku 👔 raise HaltServer(r 🔪 Netflix

ML API

M Inbox - shsulimar 👸 Week 5: Cloud ar 🔥 ML_Deployment- 📓 sammy-demo · G

Male White Bachelors 0 Unmarried Predict

Your choice for president should be Biden