

Week 5: Cloud and API deployment

LISUM02 11th August 2021

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Dataset

- Same dataset was used as the one used for deploying using Web-App last week.
- Serialization was done using python pickling.
- Like last time, created an application using Flask API.
- ➤ Ran the app using windows command prompt.

```
import pandas as pd
import pickle
from flask import Flask, request, jsonify

app = Flask(__name__)

@app.route('/predict/',methods=['GET', 'POST'])
def predict():

model = pickle.load(open('lr_model.pkl', 'rb'))
age = request.args.get('Age')
salary = request.args.get('EstimatedSalary')

df = pd.DataFrame({'Age' : [age], 'EstimatedSalary' : [salary]})

predicition = model.predict(df)

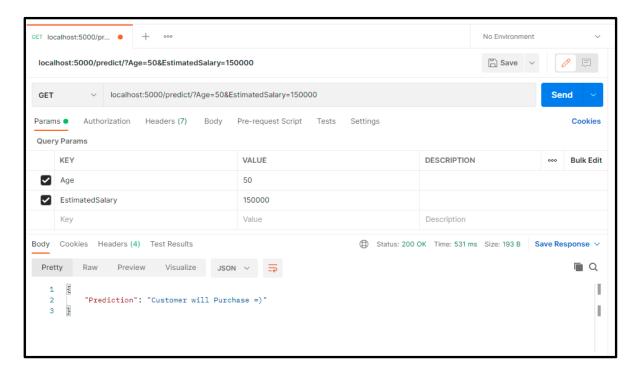
if predicition == 0:
    output = "Customer will not purchase =("
else:
    output = "Customer will Purchase =)"

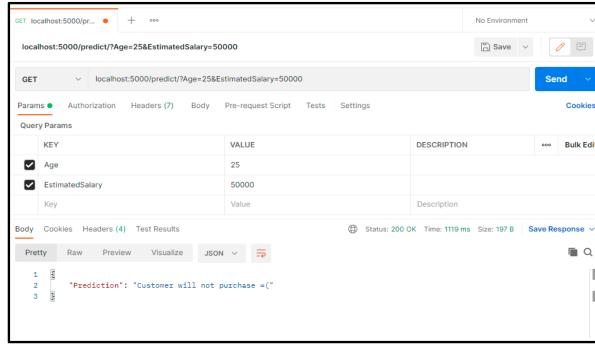
return jsonify({"Prediction" : output})

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

```
27.0.0.1 - - [11/Aug/2021 23:04:24] "GET /predict/?Age=25&Estimate
 Detected change in 'C:\\Users\\joean\\Documents\\GitHub\\Data-G
 API\\app.py', reloading
 Restarting with stat
 Debugger is active!
 Debugger PIN: 132-629-808
 Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
\Users\joean\Documents\GitHub\Data-Glacier\Week5 Cloud API>py ap
 Serving Flask app 'app' (lazy loading)
 Environment: production
 Use a production WSGI server instead.
 Debug mode: on
 Restarting with stat
 Debugger is active!
 Debugger PIN: 132-629-808
 Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
```

Model Deployment on Postman API

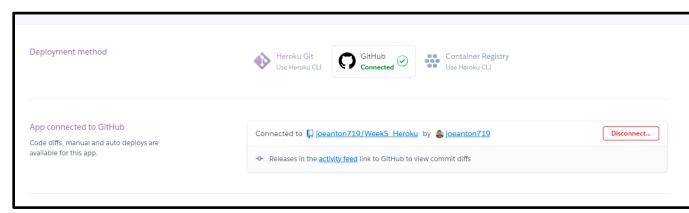




➤ Deployed the model on to Postman API. The model worked perfectly.

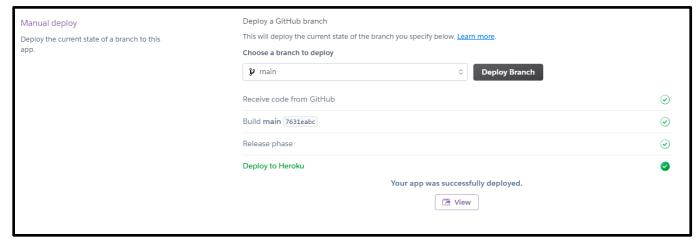


Model Deployment on Heroku App



Next, Also deployed the model on to Heroku Platform.



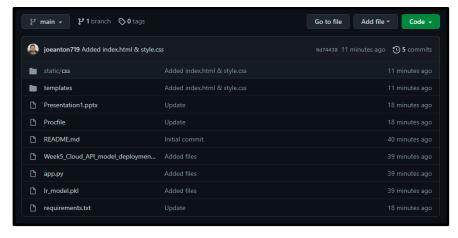


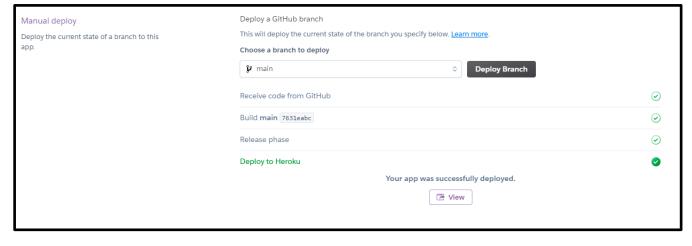
Connected GitHub repo with necessary files to the Heroku App.

Model Deployment

- The repo contains all necessary files including requirements.text (which includes all necessary packages for deployment and Procfile)
- The model was successfully deployed on Heroku Application.



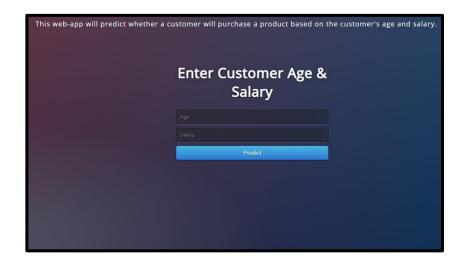






Model Deployment





Enter Customer Age & Salary

25

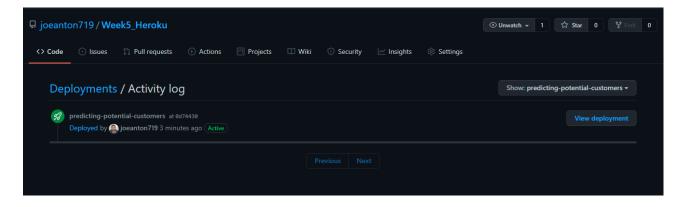
25000|

Predict

Customer will not purchase



Model deployed and ran successfully on the Heroku App.





The End

