VIRTUAL INTERNSHIP

DATA SCIENCE

LISUMO1

WEB AND API DEPLOYMENT

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7/10/2021

1. INTRODUCTION

This document contains a report of the steps carried out in the API Deployment on Heroku.

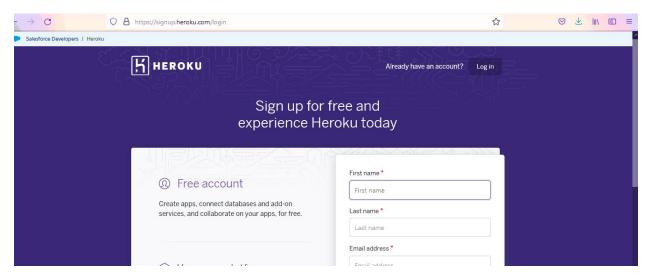
I used PyCharm, Mozilla Firefox web browser, GitHub repository, Command prompt and python programming language as well as its different packages and libraries.

The files on https://github.com/cate6495/salary-model/tree/master contain the model that I deployed on Heroku.

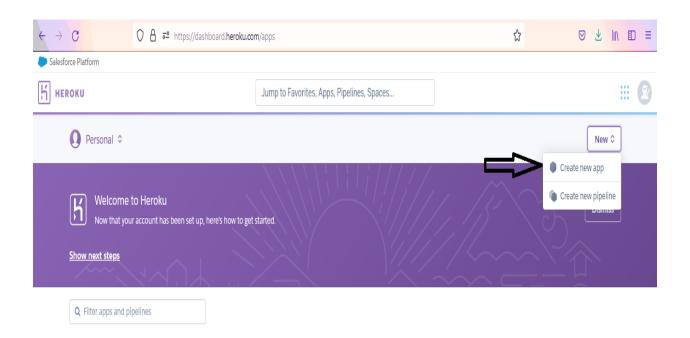
Below are the steps:

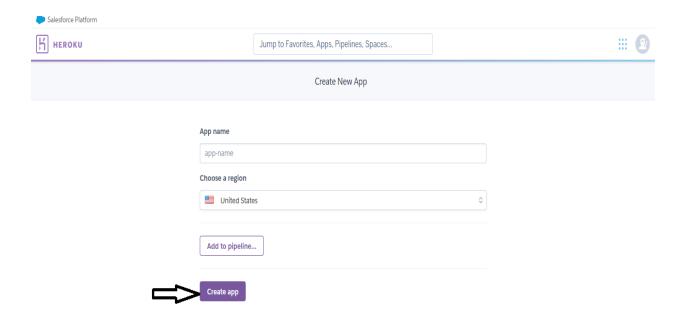
API DEPLOYMENT ON HEROKU BY GITHUB

- 1. Here, I used Mozilla Firefox and GitHub repository:
 - Used http://www.heroku.com to create an account in Heroku and sign in.



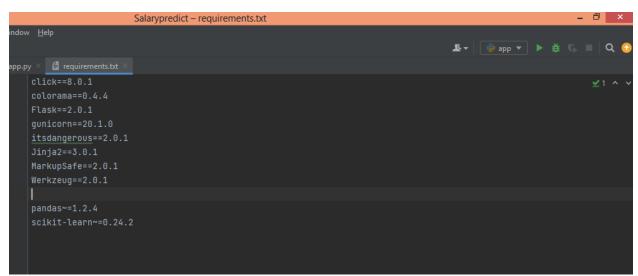
2. Create a new app on Heroku:



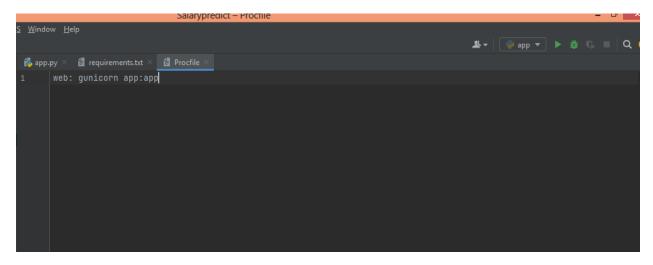


3. Have a repository with the app that contains our model, requirements.txt file and a Procfile.

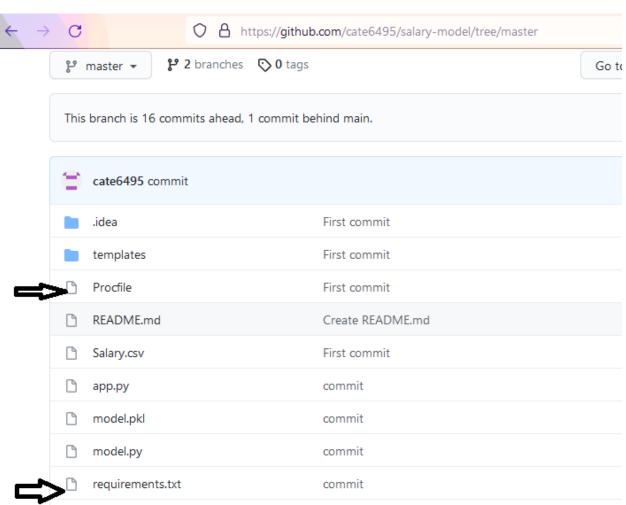
The requirements.txt contains all the dependencies necessary, it tells Heroku that it will require all these libraries to run the app correctly.

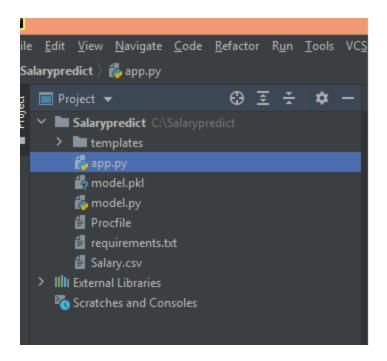


The Procfile tells Heroku how to run the application.

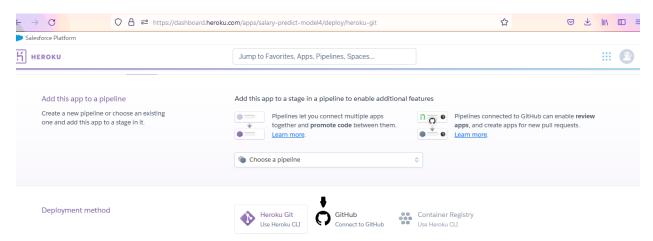


The Procfile and the requirements.txt should also be in the root directory as the model.

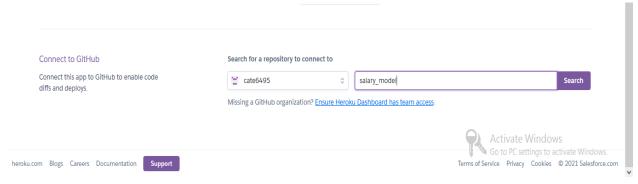




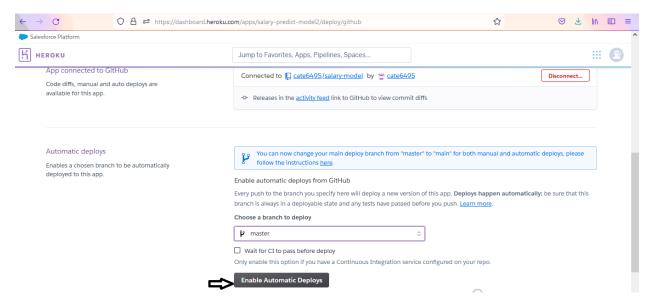
4.In Heroku connect to GitHub:



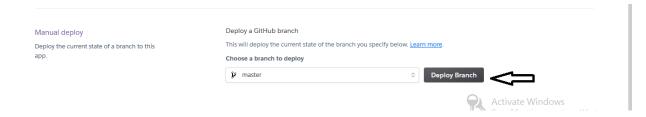
5.Enter repo-name and search then connect:



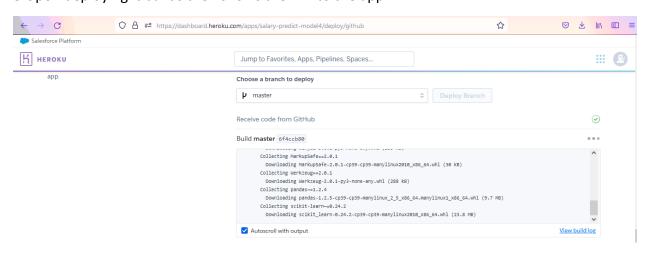
6. Enable automatic display:



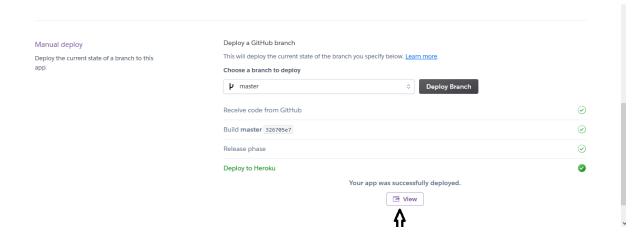
7. Deploy branch by clicking on the deploy branch:



8. Upon deploying it builds then shows the link to the app:



9.Click on view to see the app:



10.The web app:



Salarypredict

Years Experience Predict

11. Testing the model:



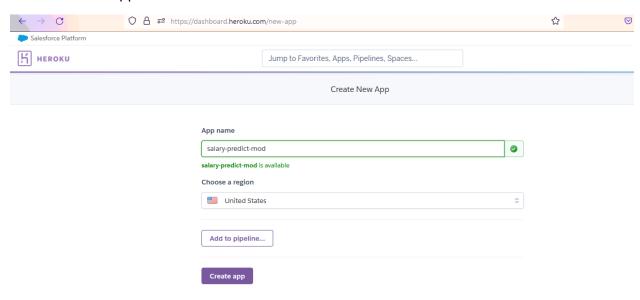
Salarypredict

Years Experience Predict

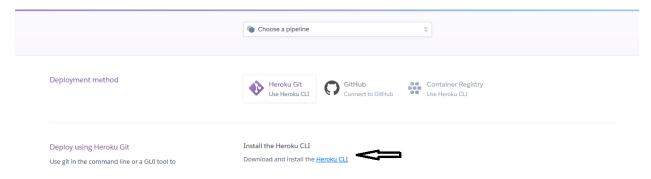
The salary is [[158891.94252674]]

API DEPLOYMENT ON HEROKU USING HEROKU GIT

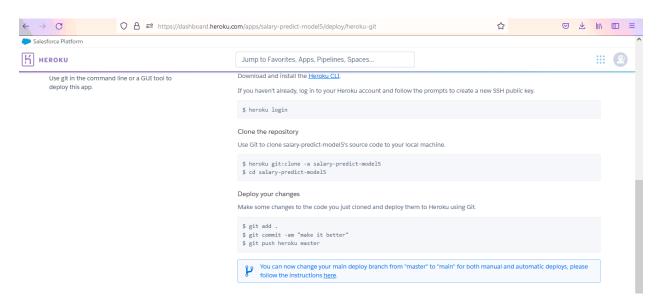
1.Create a new app on Heroku:



2.Then download and install Heroku CLI:



3. Then follow the steps provided in order to deploy:



Below are the results of the above codes:

```
C:\Users\Acer>heroku login
heroku: Press any key to open up the browser to login or q to exit:
Opening browser to https://cli-auth.heroku.com/auth/cli/browser/1e5c13bb-03f9-4c
b4-9f2d-2b53c9437cfa?requestor=SFMyNTV.g2gDbQAAAA8xOIcuMTU2LjE5MC4xODWuBgDIdmX4e
gFiAAFRA.uuaosBxGnA2Aff5YK37bxz85dtc59FQdkps1Xs9gOgo
Logging in... done
Logged in as sandacateQmail.com

C:\Users\Acer\SALARYMODEL\git init
Reinitialized existing Git repository in C:\Users\Acer\SALARYMODEL\.git\/
C:\Users\Acer\SALARYMODEL\git add .
warning: Lf will be replaced by CRLF in .idea/inspectionProfiles/profiles_settin
gs.xml.
The file will have its original line endings in your working directory

C:\Users\Acer\SALARYMODEL\git commit -am 'make it better''

[Imaster f128400] make it better
10 files changed, 101 insertions(+)
create mode 100644 .idea/SALARYMODEL.iml
create mode 100644 .idea/SALARYMODEL.iml
create mode 100644 .idea/salary.csv
create mode 100644 .idea/miss.xml
create mode 100644 .idea/miss.xml
create mode 100644 .idea/miss.xml
create mode 100644 .idea/miss.xml
create mode 100644 .idea/modules.xml
create mode 100644 .idea/miss.xml
create mode 100644 .idea/modules.xml
create mode 100644 .idea/misc.xml
```

```
andas, threadpoolctl, scipy, joblib, scikit-learn
remote: Successfully installed Flask-2.0.1 Jinja2-3.0.1 MarkupSafe-2.0.1
lerkzeug-2.0.1 click-8.0.1 colorama-0.4.4 gunicorn-20.1.0 itsdangerous-2.0.1 job
lib-1.0.1 numpy-1.21.1 pandas-1.2.5 python-dateutil-2.8.2 pytz-2021.1 scikit-lea
rn-0.24.2 scipy-1.7.0 six-1.16.0 threadpoolctl-2.2.0
remote: Procfile declares types
remote: Procfile declares types -> web
remote: Done: 139.5M
remote: Done: 139.5M
remote: Released v3
remote: Released v3
remote: https://salary-predict-model5.herokuapp.com/ deployed to Heroku
remote: Verifying deploy... done.
lo https://git.heroku.com/salary-predict-model5.git
* [new branch] master -> master

C:\Users\Acer\SALARYMODEL>_
```

5.Click on the link: https://salary-predict-model5.herokuapp.com



Salarypredict

Years Experience Predict

6.Testing the results of salarypredict:



Salarypredict

Years Experience Predict

The salary is [[158891.94252674]]