VIRTUAL INTERNSHIP

DATA SCIENCE

LISUM01

CLOUD AND API DEPLOYMENT

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I. INTRODUCTION

This document contains the detailed report of all the steps carried out in order to understand how to realize API Deployment on Heroku cloud platform.

I will use Google Chrome web browser, github repository, and python programming language as well as its different packages and libraries.

The files on https://github.com/Vince689/Heroku-emp-salaryprediction.git contain the model that I need to deploy an APP on Heroku.

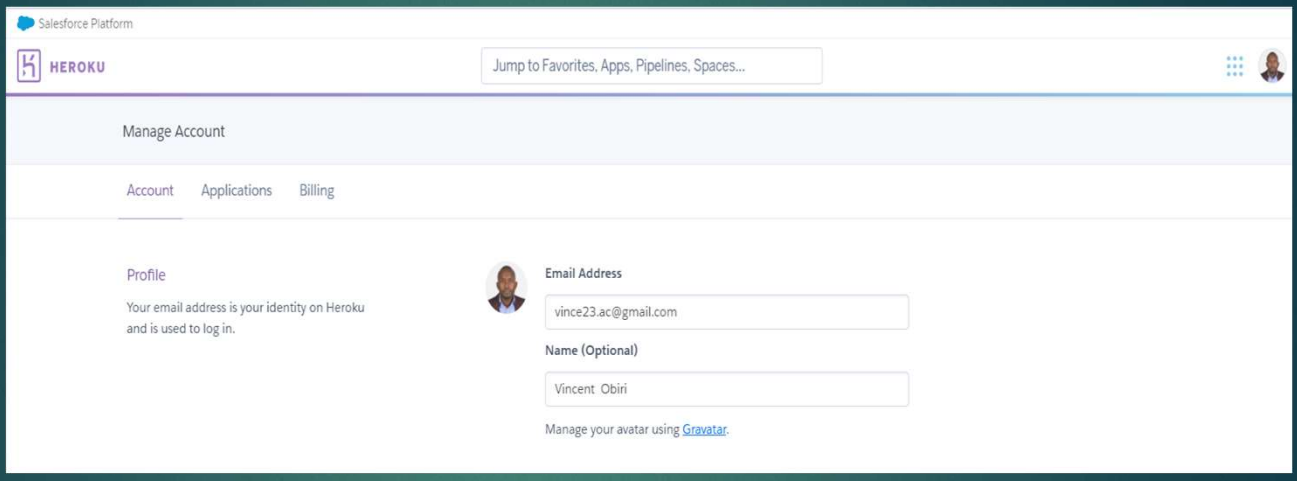
The following contents will be found in this document: APP Deployment on Hereku by GitHub repo.

II. API DEPLOYMENT ON HEROKU BY GITHUB

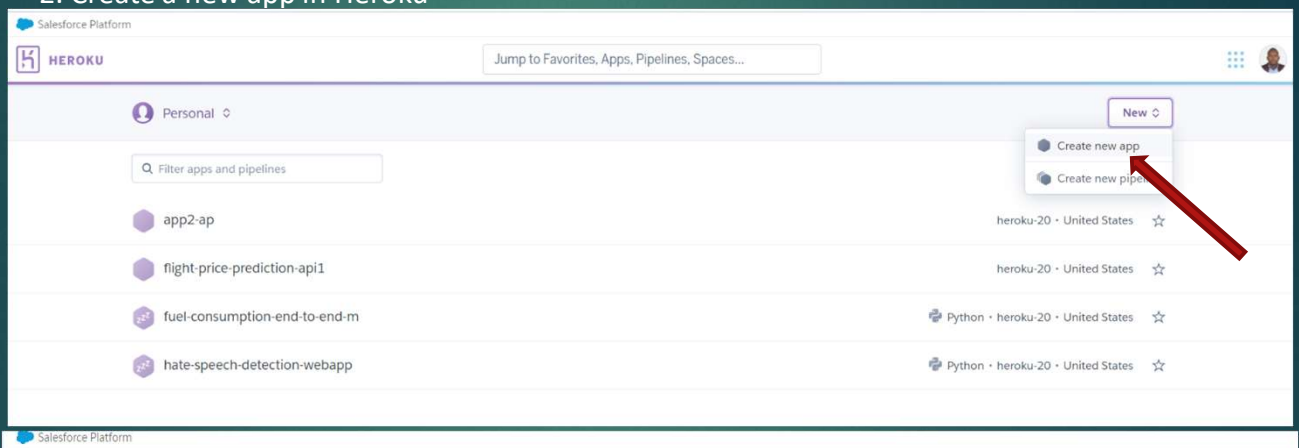
Heroku integrates with GitHub to facilitate the deployment of code stored in GitHub to applications running on Heroku. When GitHub integration is configured for a Heroku app, Heroku can automatically build and release (if the build is successful) all pushes to the specified GitHub repo.

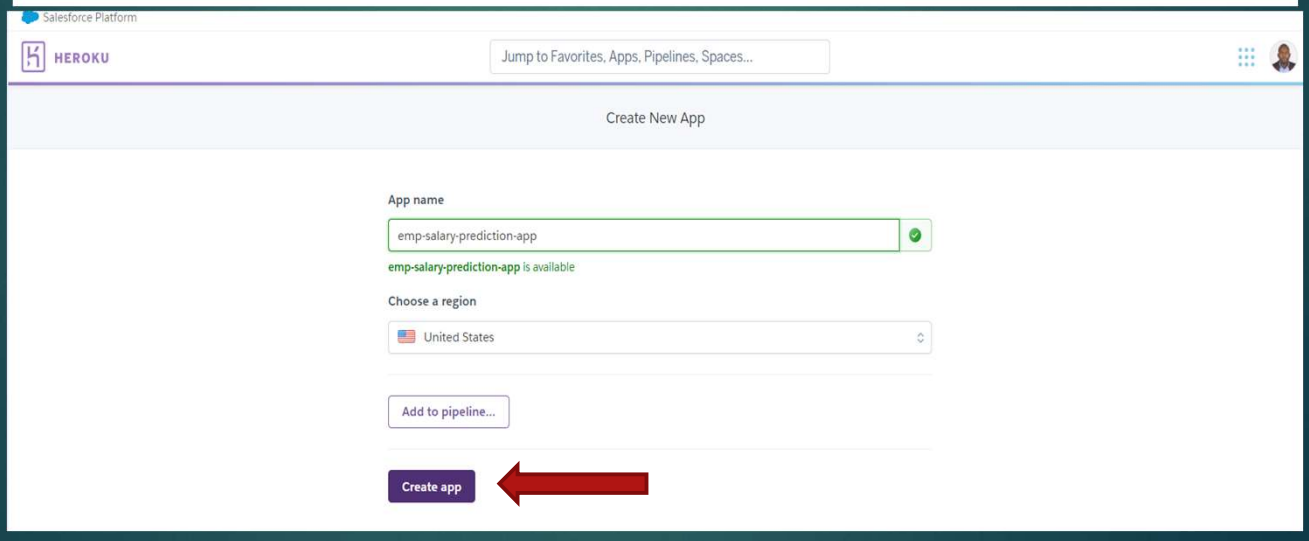
In this segment, I will use Google Chrome, Github repository

1. Use http://www.heroku.com and create a Heroku account and login.



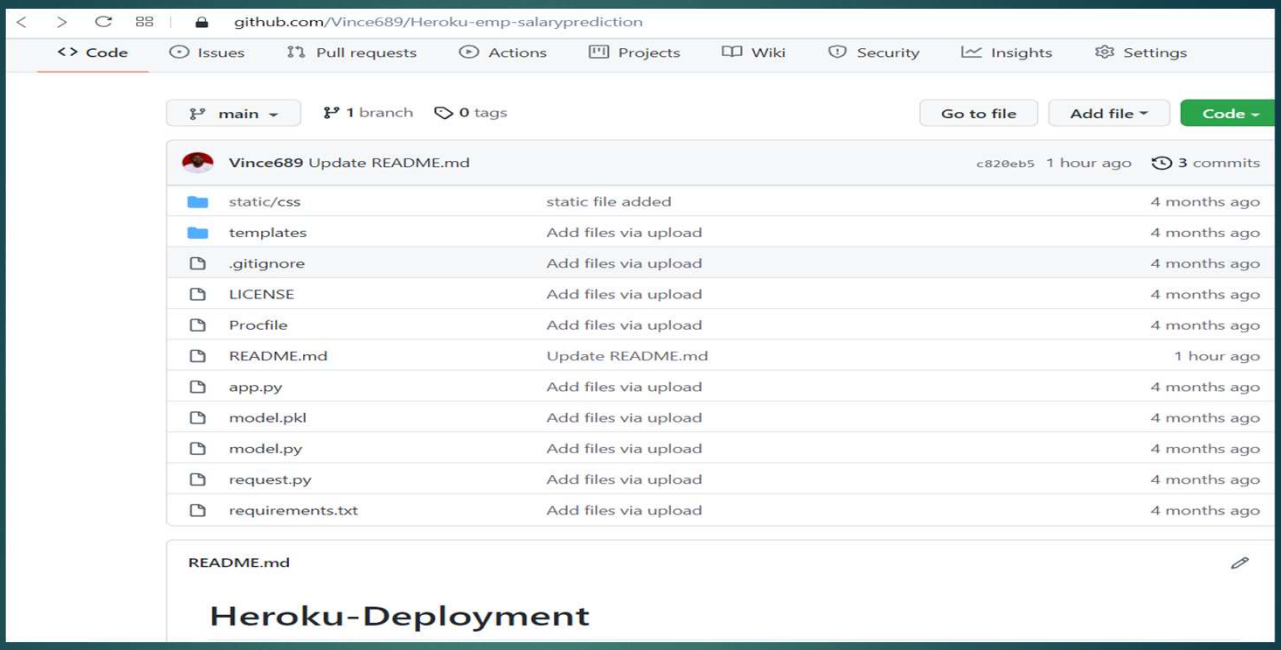
2. Create a new app in Heroku



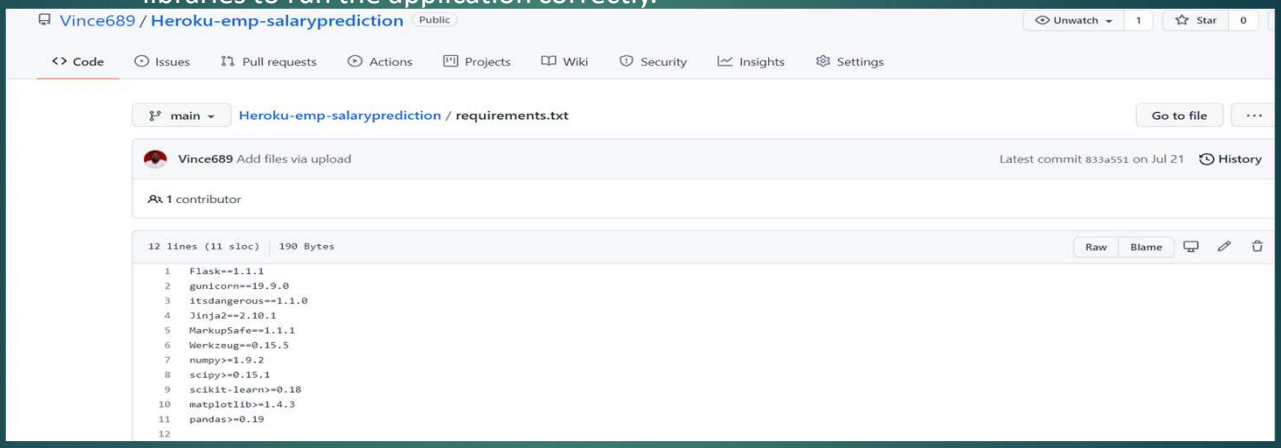


3. To keep on the next step, we need to have a GitHub repository with the app that contain our model.

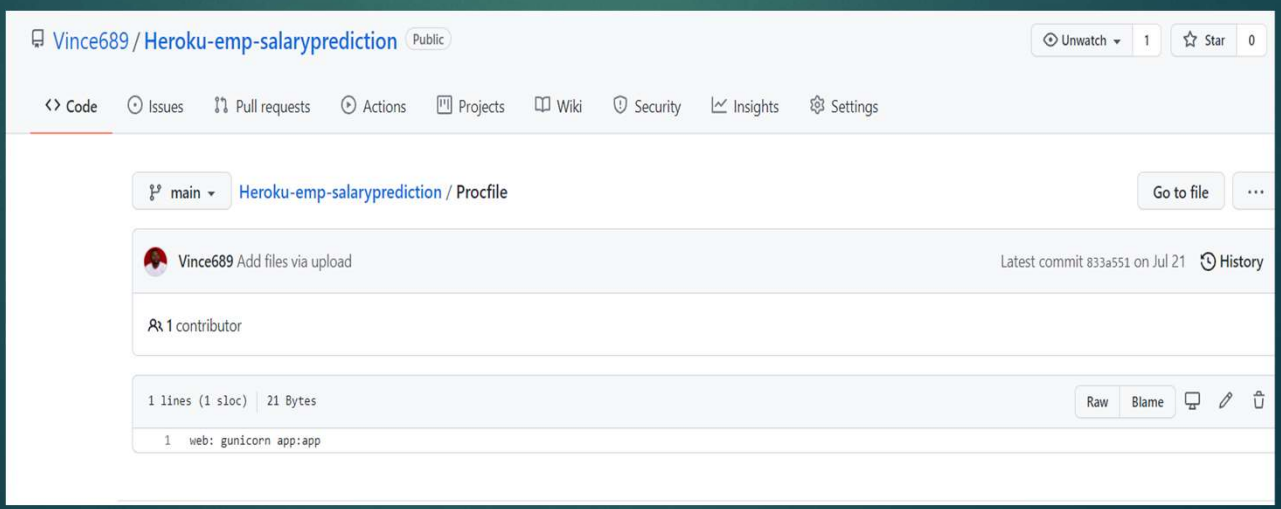
    1. This is the content of my repo that contain my app



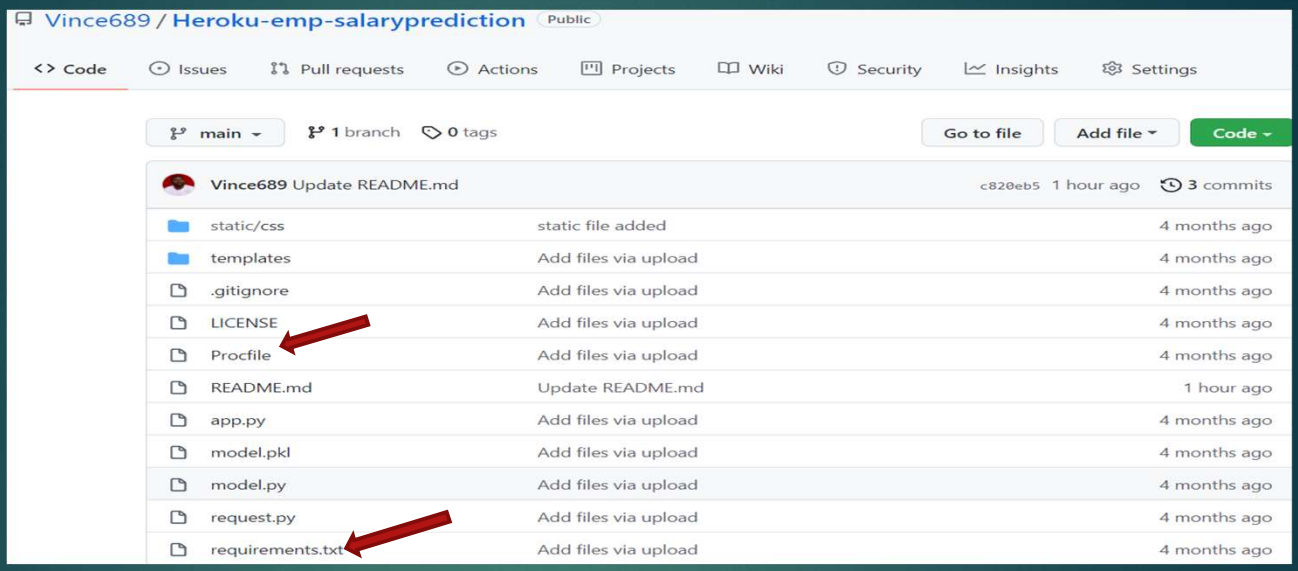
3.2. Create a new repository and save all folder and file necessary to run the app and as well we need to add two files. You must install all the dependencies necessary in the file called "requirements.txt", it will tell heroku that this project will require all these libraries to run the application correctly.



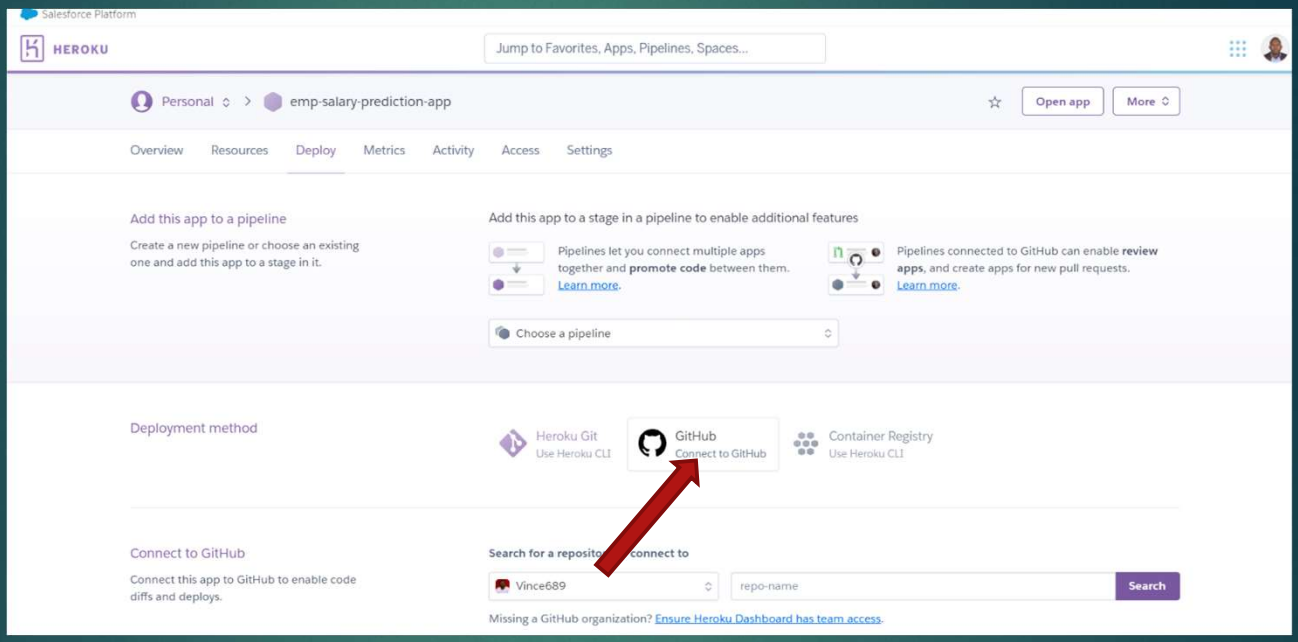
- Heroku requires "Procfile" to be present in the root directory of your application. It will tell Heroku how to run the application. Make sure it is a simple file with no extension.



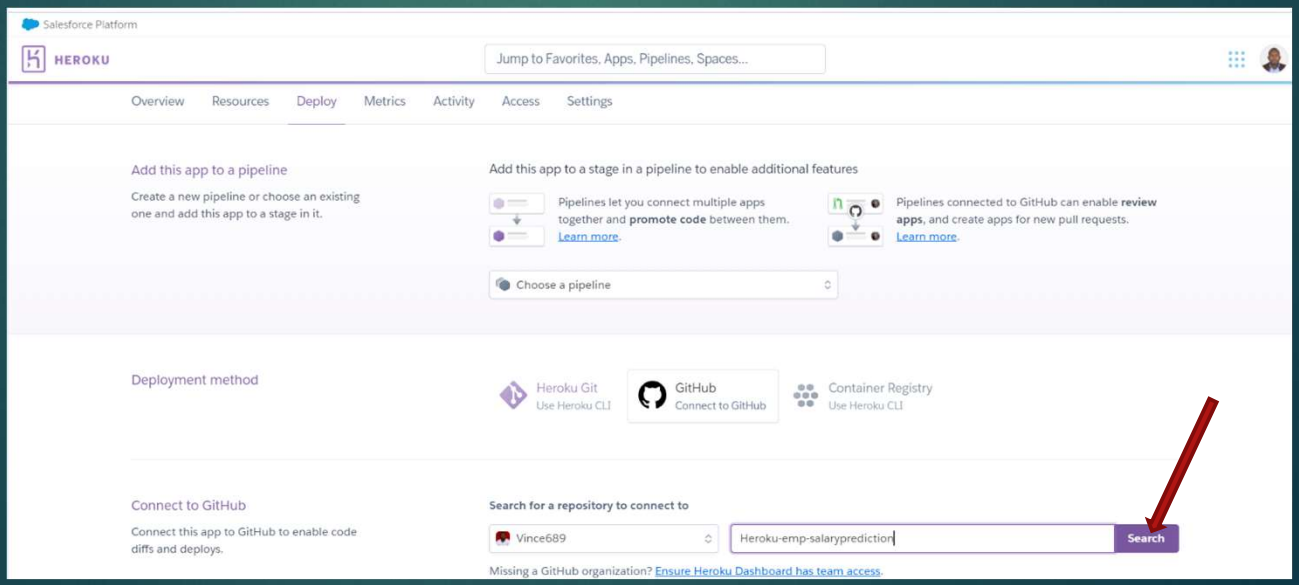
3.3. Make sure the Procfile file and the requirements.txt are present in the root directory of your application.



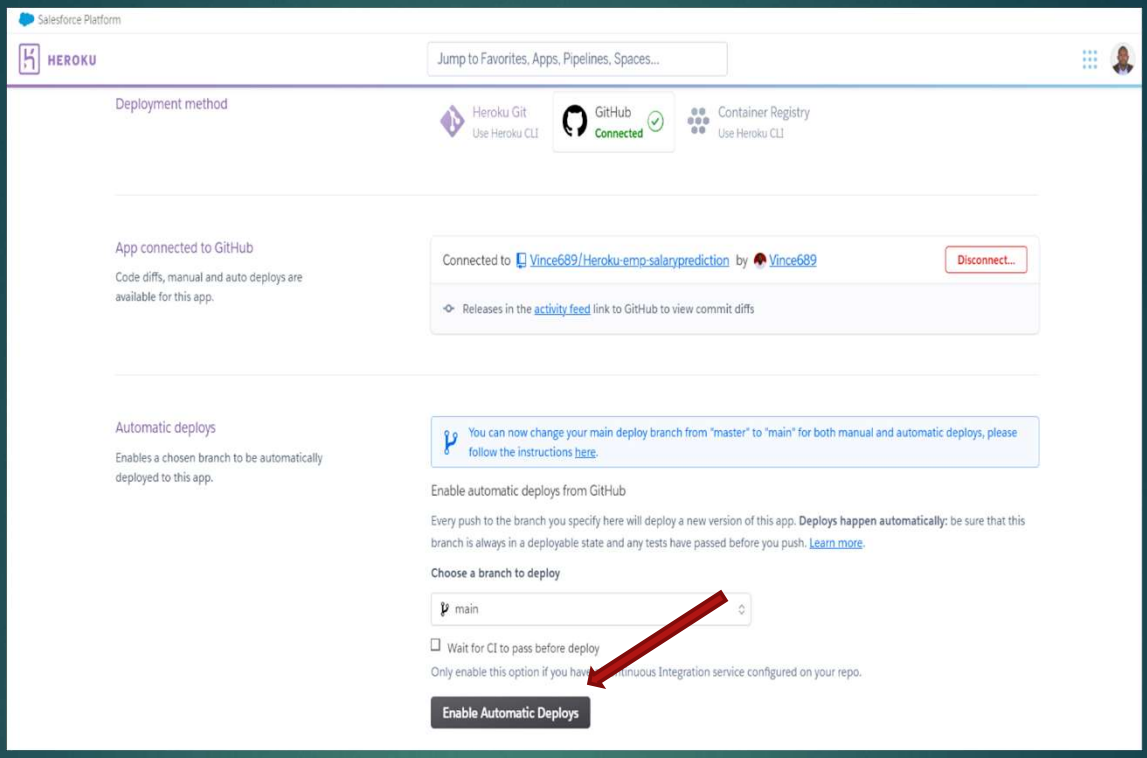
4. In Heroku Connect to GitHub



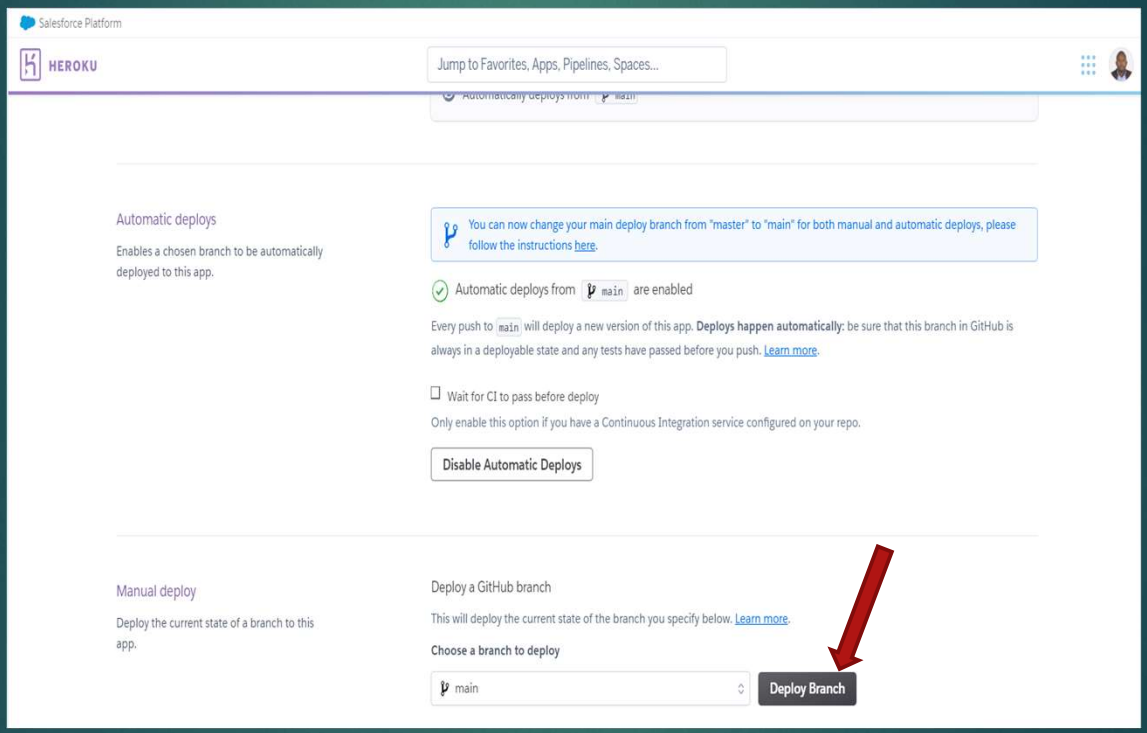
5. Write the repo-name and Search



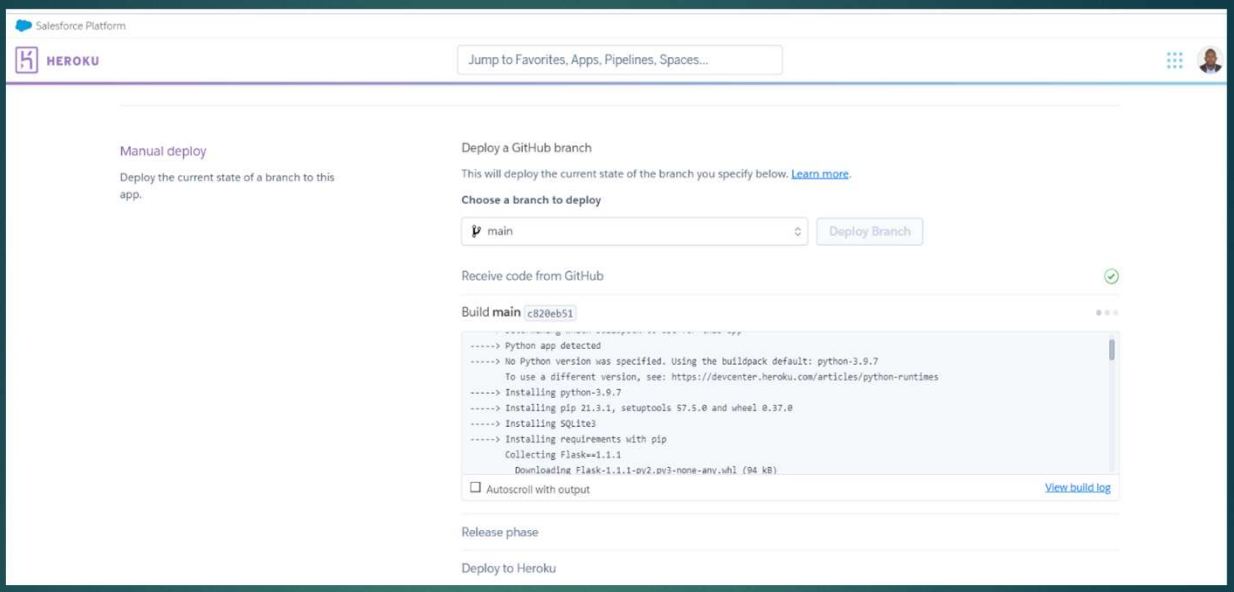
6. Click in Enable Automatic Deploys

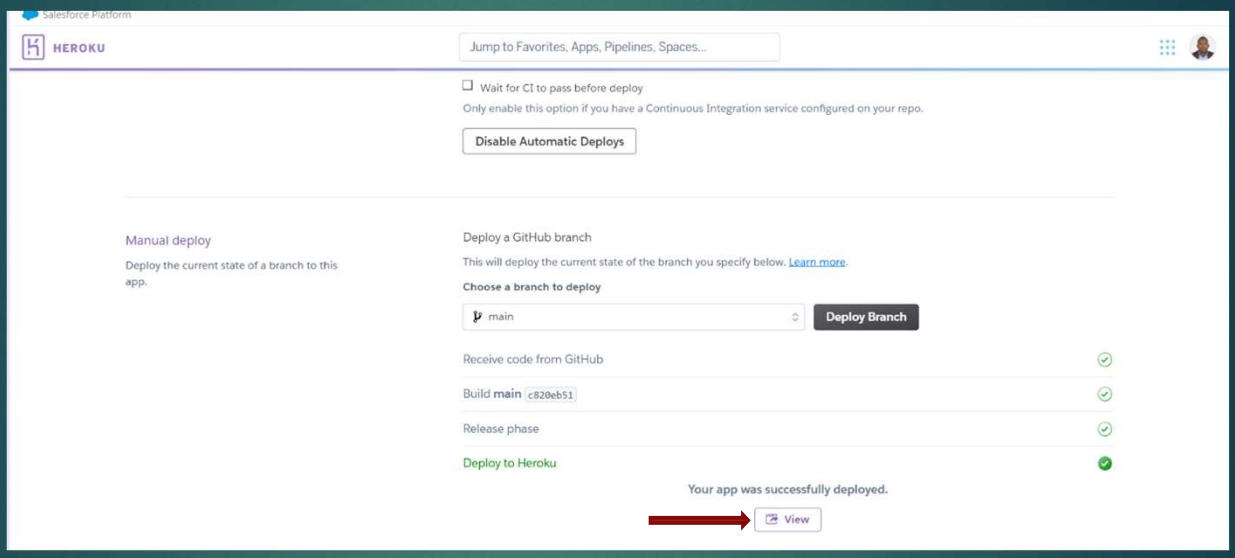


7. Click on Deploy Branch

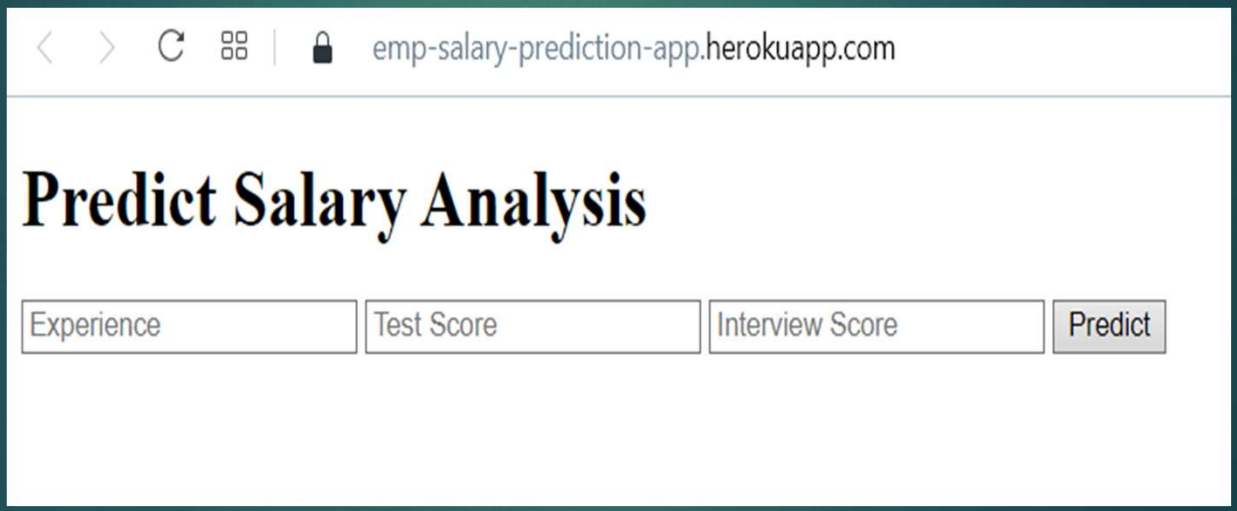


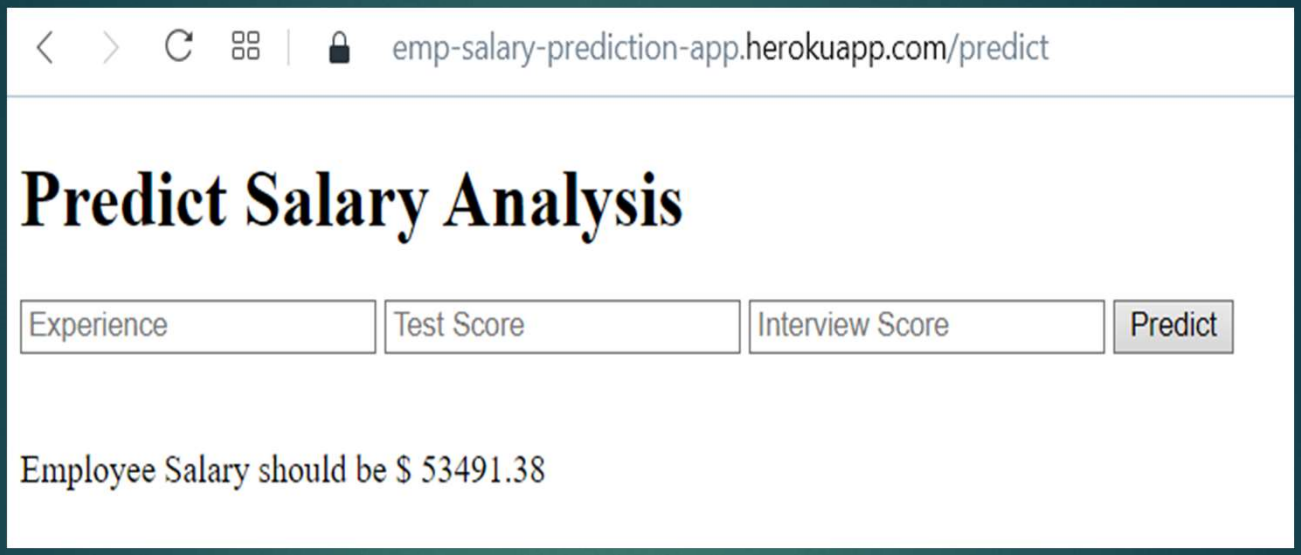
8. The app starts to build then Heroku shows the link to launch the app





9. The web app for Predicting Salary Analysis





III. CONCLUSION

In this document I showed simple steps to do deployment of web app on Heroku using GitHub repository.