



VIRTUAL INTERNSHIP

DATA ANALYST

LISUM01

CLOUD AND API DEPLOYMENT

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I. INTRODUCTION

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

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

The files on <https://github.com/deepthikashiwani/Student-Percentage-Predictor> contain the model and deployment files that I need to create de APP on Heroku

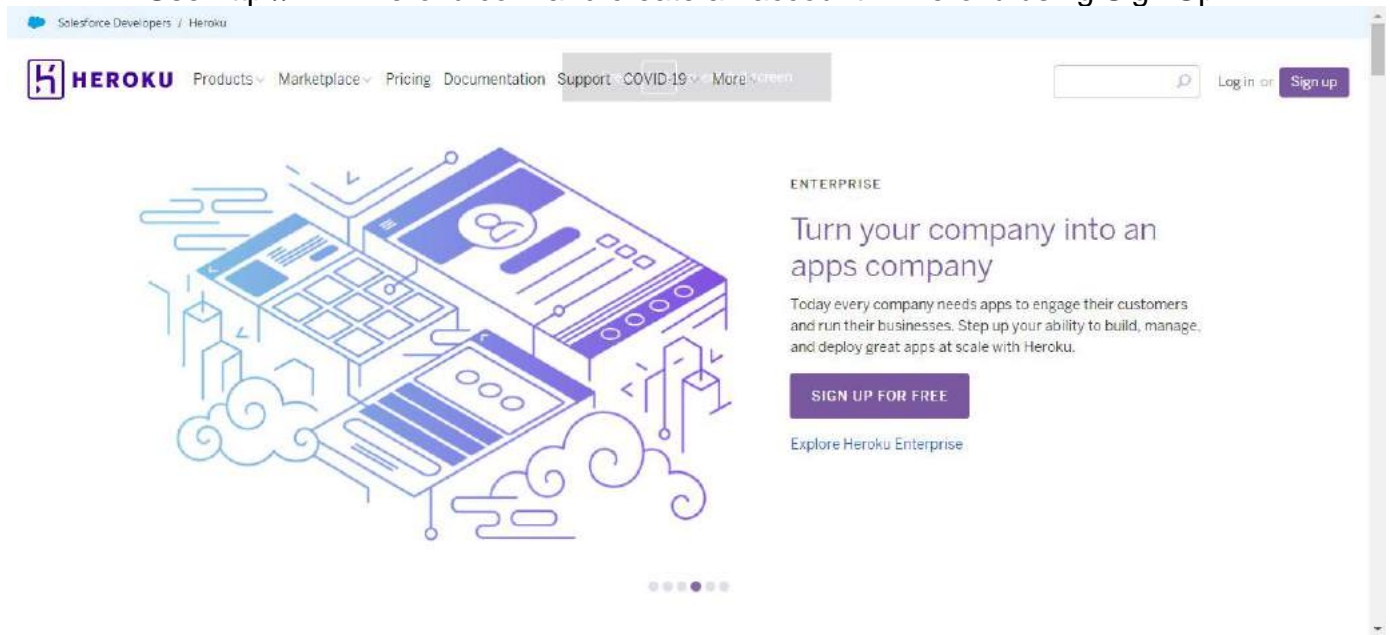
The following contents will be found in this document: APP Deployment on Heroku by github and APP Deployment on Heroku by visual studio code will allow us to reach the objective.

II. API DEPLOYMENT ON HEROKU BY GITHUB

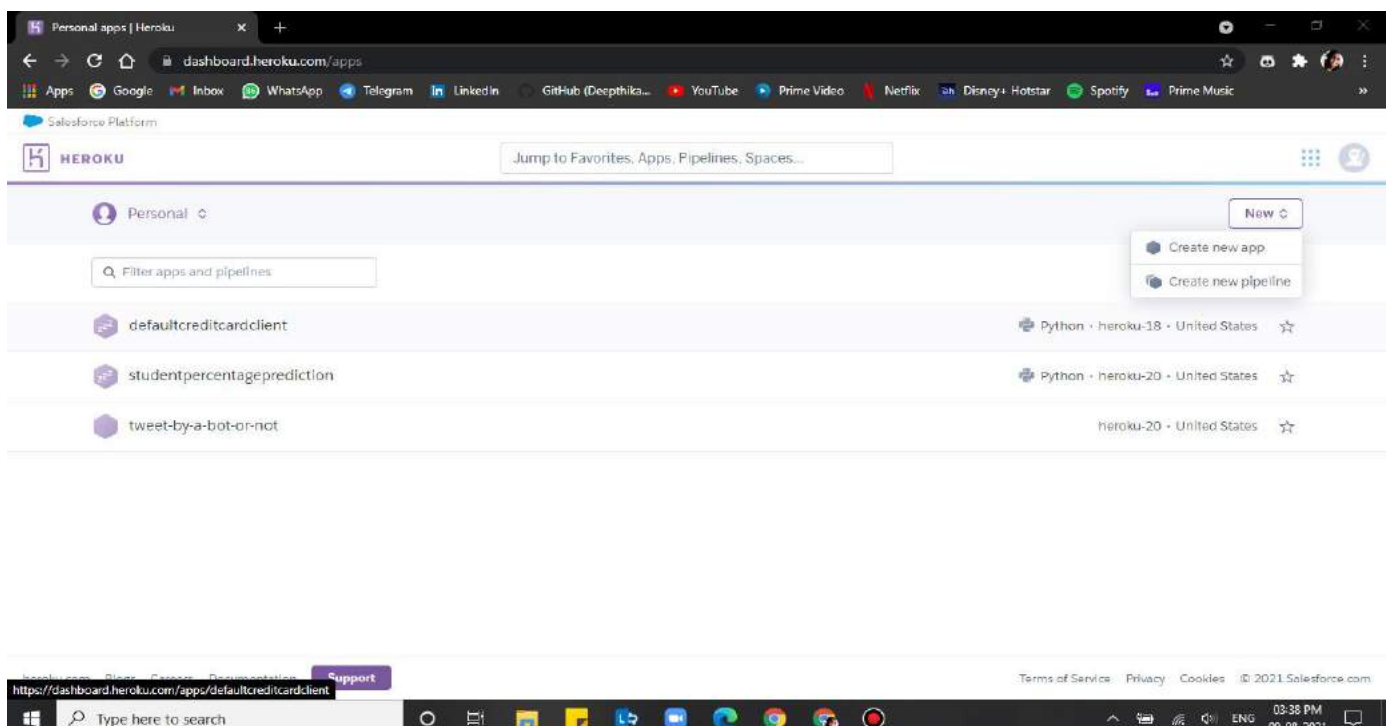
Heroku integrates with GitHub to make it easy to deploy code living on GitHub to apps running on Heroku. When GitHub integration is configured for a Heroku app, Heroku can automatically build and release (if the build is successful) pushes to the specified GitHub repo.

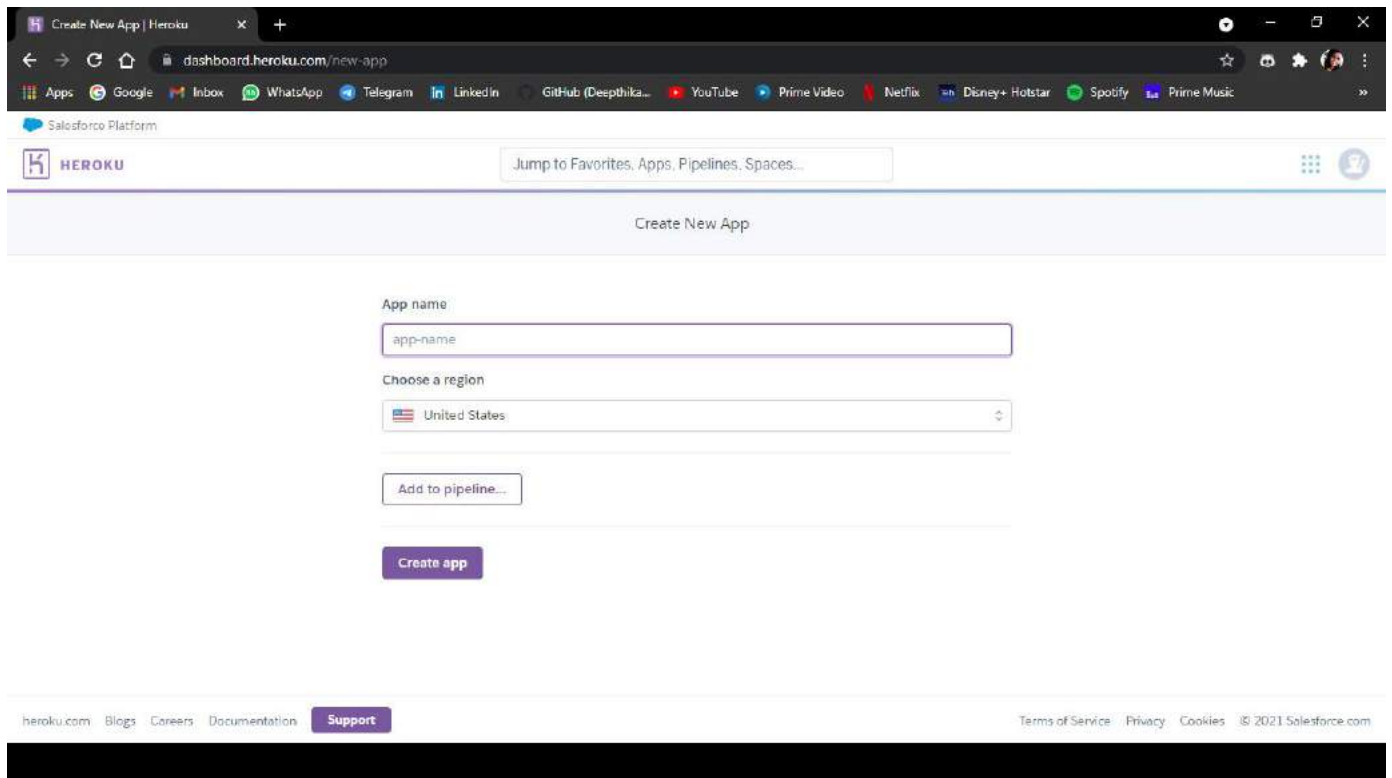
In this segment, I will use Google Chrome, Github repository

1. Use <http://www.heroku.com> and create an account in Heroku using Sign Up



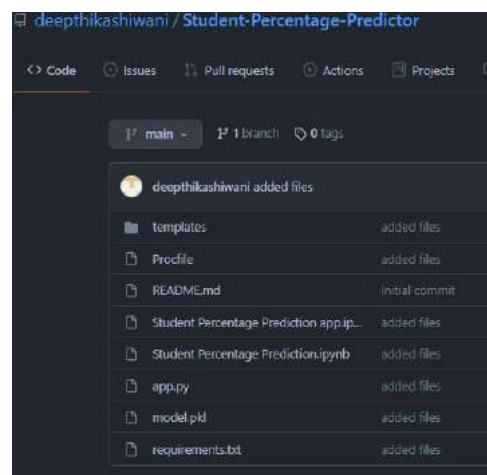
2. Create a new app in Heroku





To keep on the next step, we need to have a repository with the app that content our model

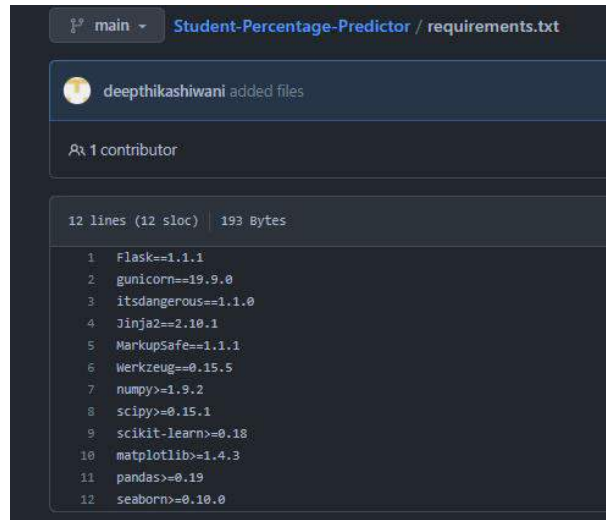
2.1. This is the content of my repo that contain my app



Create a new repository and save all folder and file necessary to run the app

and as well we need to add two files:

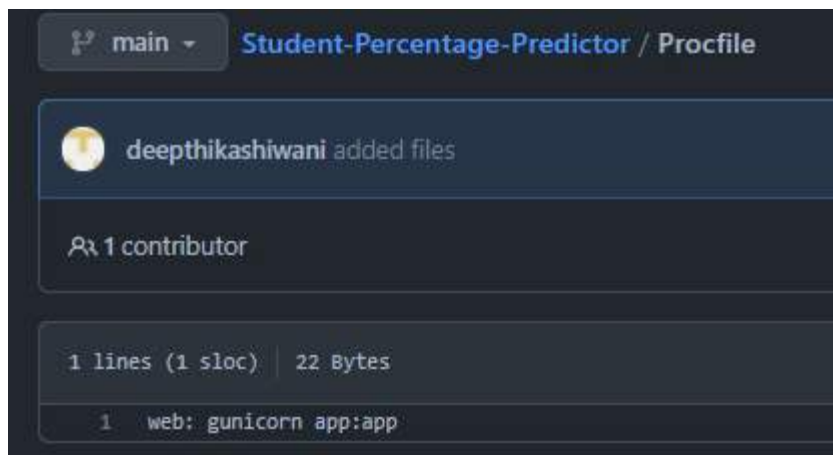
- You must install all the dependencies necessary in the file called “requirements.txt”, it will tell heroku that this project will require all these libraries to run the application correctly.



The screenshot shows a GitHub interface for a file named 'requirements.txt' in the 'Student-Percentage-Predictor' repository. The file was added by 'deepthikashiwani'. It contains 12 lines of code, which are 12 sloc and 193 Bytes. The code lists the following dependencies:

```
1 Flask==1.1.1
2 gunicorn==19.9.0
3 itsdangerous==1.1.0
4 Jinja2==2.10.1
5 MarkupSafe==1.1.1
6 Werkzeug==0.15.5
7 numpy>=1.9.2
8 scipy>=0.15.1
9 scikit-learn>=0.18
10 matplotlib>=1.4.3
11 pandas>=0.19
12 seaborn>=0.10.0
```

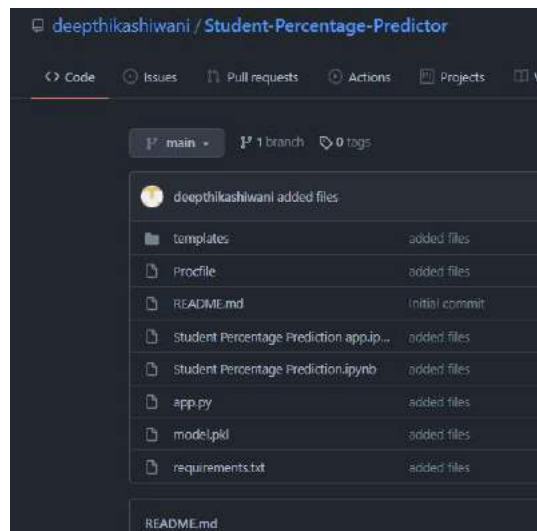
- Heroku requires “Procfile” to be present in the root directory of your application. It will tell Heroku how to run the application. Make sure it is a simple file with no extension.



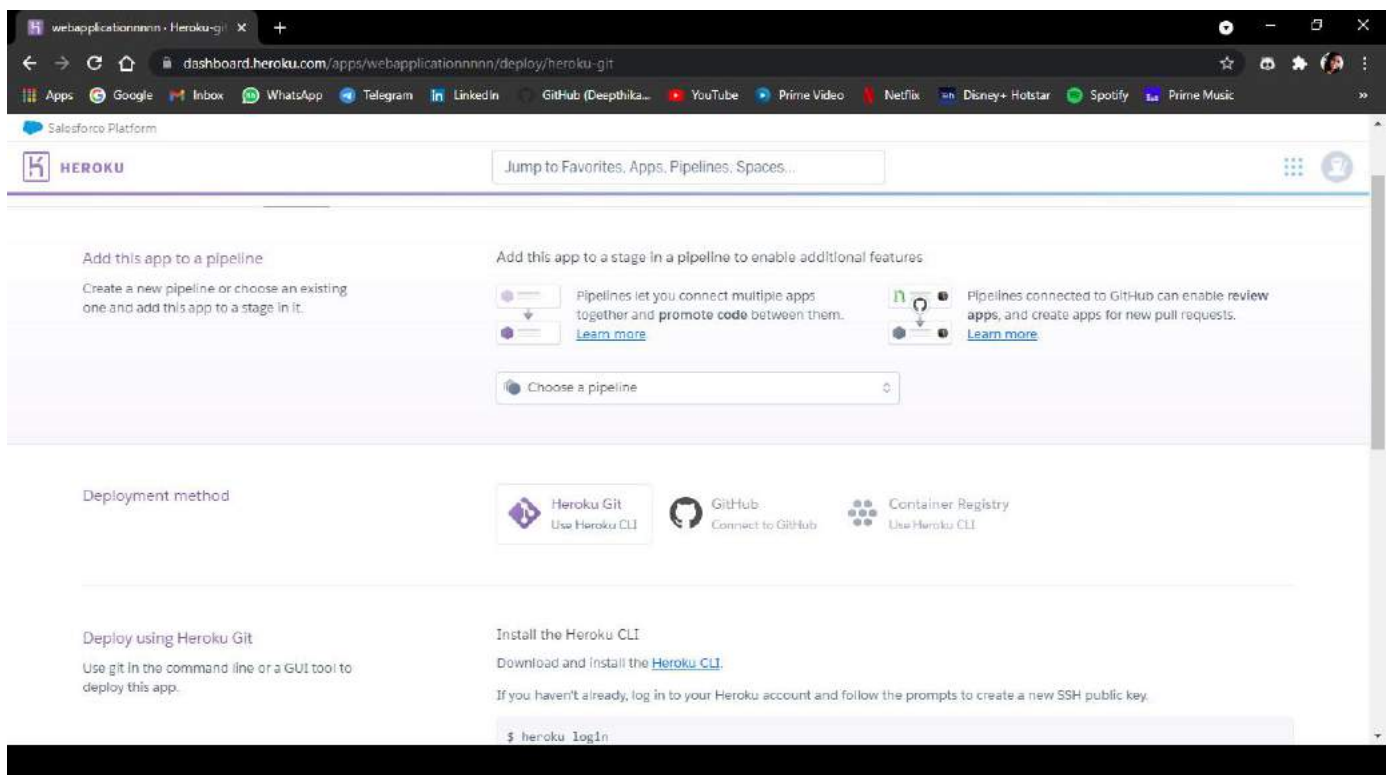
The screenshot shows a GitHub interface for a file named 'Procfile' in the 'Student-Percentage-Predictor' repository. The file was added by 'deepthikashiwani'. It contains 1 line of code, which is 1 sloc and 22 Bytes. The code specifies the web process:

```
1 web: gunicorn app:app
```

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



3. In Heroku Connect to GitHub



4. Write the repo-name and Search

webapplicationnnnn - GitHub | H x

dashboard.heroku.com/apps/webapplicationnnnn/deploy/github

Apps Google Inbox WhatsApp Telegram LinkedIn GitHub (Deepthika...) YouTube Prime Video Netflix Disney+ Hotstar Spotify Prime Music

Salesforce Platform

HEROKU

Jump to Favorites, Apps, Pipelines, Spaces...

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 Connect to GitHub

Container Registry Use Heroku CLI

Connect to GitHub

Connect this app to GitHub to enable code diffs and deploys.

Search for a repository to connect to

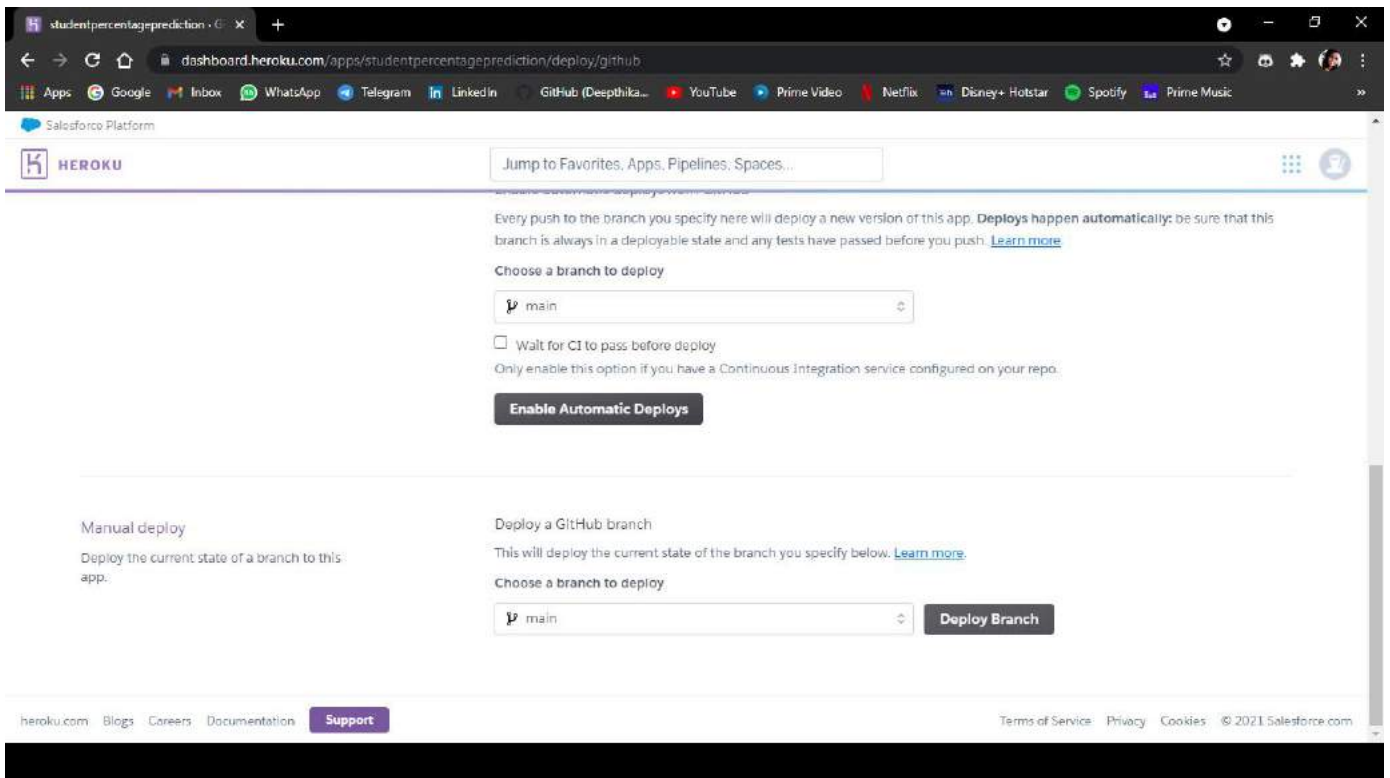
deepthikashiwani repository name Search

Missing a GitHub organization? [Ensure Heroku Dashboard has team access](#)

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5. Click in Enable Automatic Deploys



You can see both changes.

6. Click in Deploy Branch

studentpercentageprediction - G x +

dashboard.heroku.com/apps/studentpercentageprediction/deploy/github

Apps Google Inbox WhatsApp Telegram LinkedIn GitHub (Deepthika...) YouTube Prime Video Netflix Disney+ Hotstar Spotify Prime Music

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HEROKU

Enable Automatic Deploy with 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

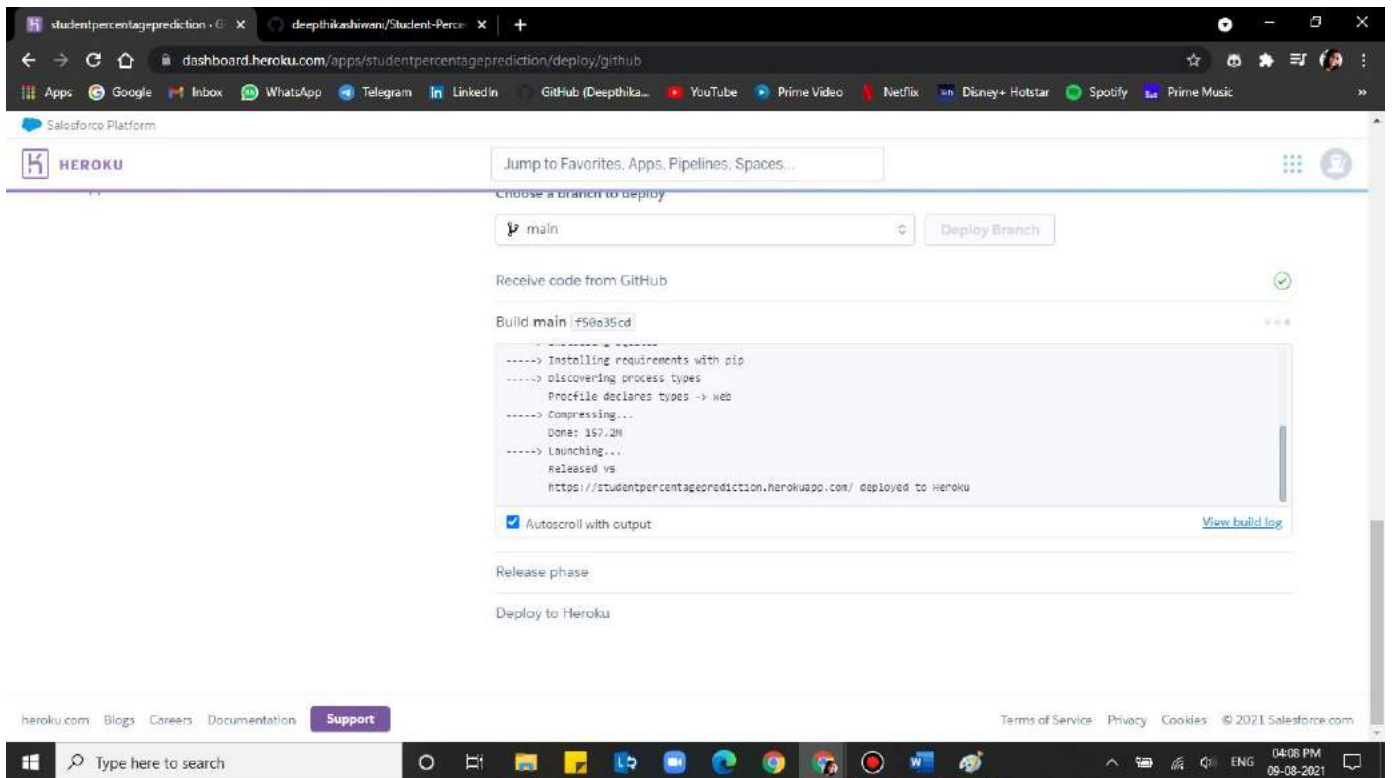
main

Deploy Branch

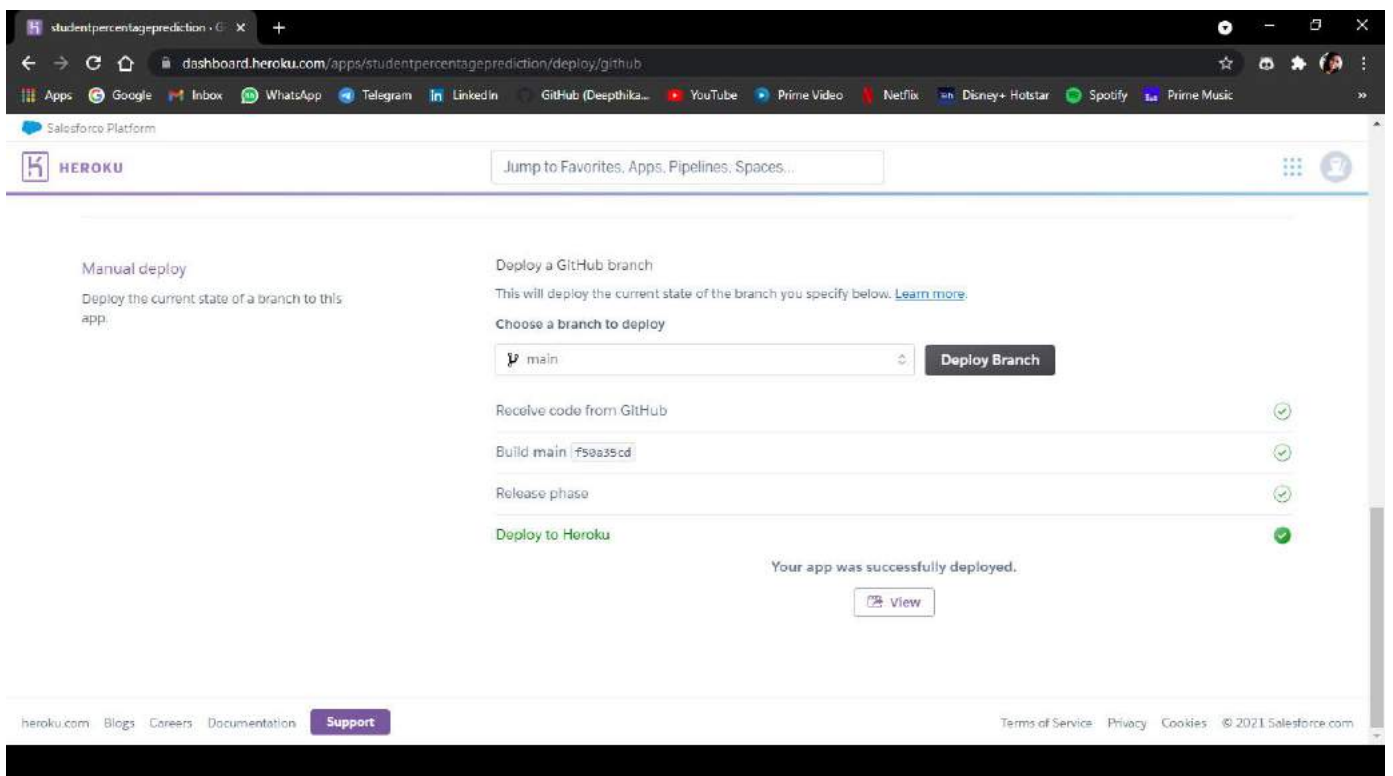
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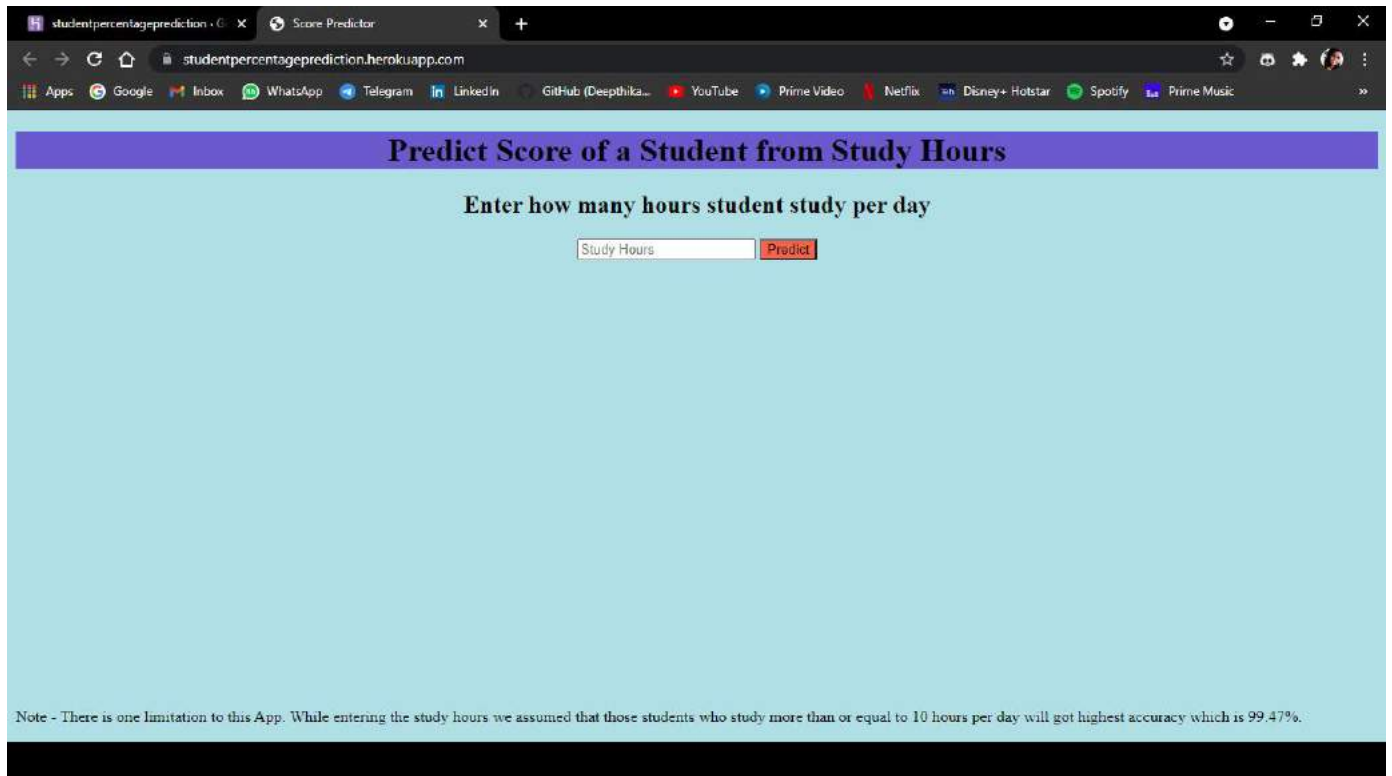
7. It starts to build then Heroku show the link to see our app



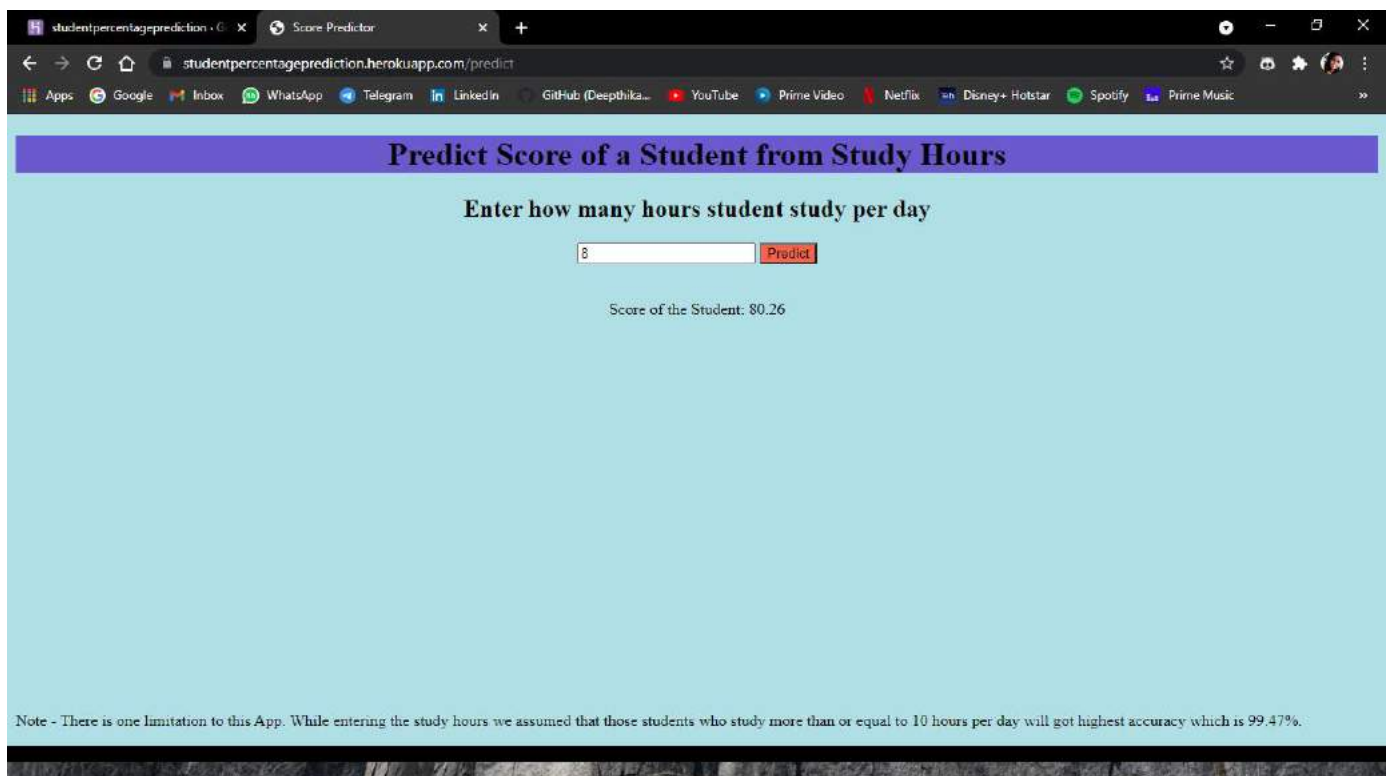
The app is deployed successfully.



8. Student Percentage Predictor



9. Testing the model Predict Salary Analysis



CONCLUSION

In this document i show you step by step two simple ways to do deployment app web using Heroku, using Github repository.