Week 5: Cloud and API deployment

Name: Tasnime Hamdeni

Email : hamdeni.tasnime@gmail.com

Country: Tunisia

College: National Engineering School of Tunis

Specialization: Data science

1. Select toy data:

Entrée [7]:
```
...
# head
print(dataset.head(20))
```

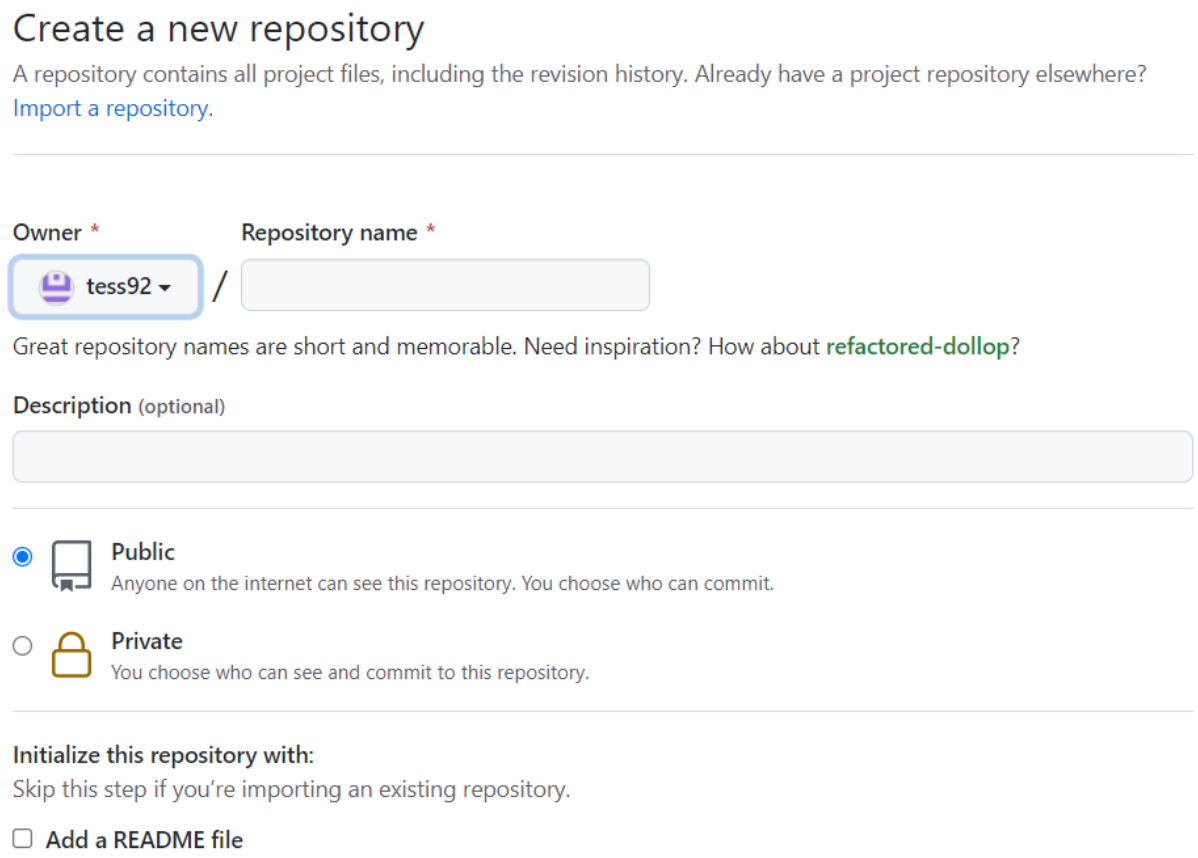
```
    sepal-length  sepal-width  petal-length  petal-width        class
0            5.1          3.5           1.4          0.2  Iris-setosa
1            4.9          3.0           1.4          0.2  Iris-setosa
2            4.7          3.2           1.3          0.2  Iris-setosa
3            4.6          3.1           1.5          0.2  Iris-setosa
4            5.0          3.6           1.4          0.2  Iris-setosa
5            5.4          3.9           1.7          0.4  Iris-setosa
6            4.6          3.4           1.4          0.3  Iris-setosa
7            5.0          3.4           1.5          0.2  Iris-setosa
8            4.4          2.9           1.4          0.2  Iris-setosa
9            4.9          3.1           1.5          0.1  Iris-setosa
10           5.4          3.7           1.5          0.2  Iris-setosa
11           4.8          3.4           1.6          0.2  Iris-setosa
12           4.8          3.0           1.4          0.1  Iris-setosa
13           4.3          3.0           1.1          0.1  Iris-setosa
14           5.8          4.0           1.2          0.2  Iris-setosa
15           5.7          4.4           1.5          0.4  Iris-setosa
16           5.4          3.9           1.3          0.4  Iris-setosa
17           5.1          3.5           1.4          0.3  Iris-setosa
18           5.7          3.8           1.7          0.3  Iris-setosa
19           5.1          3.8           1.5          0.3  Iris-setosa
```

2. Save the model:

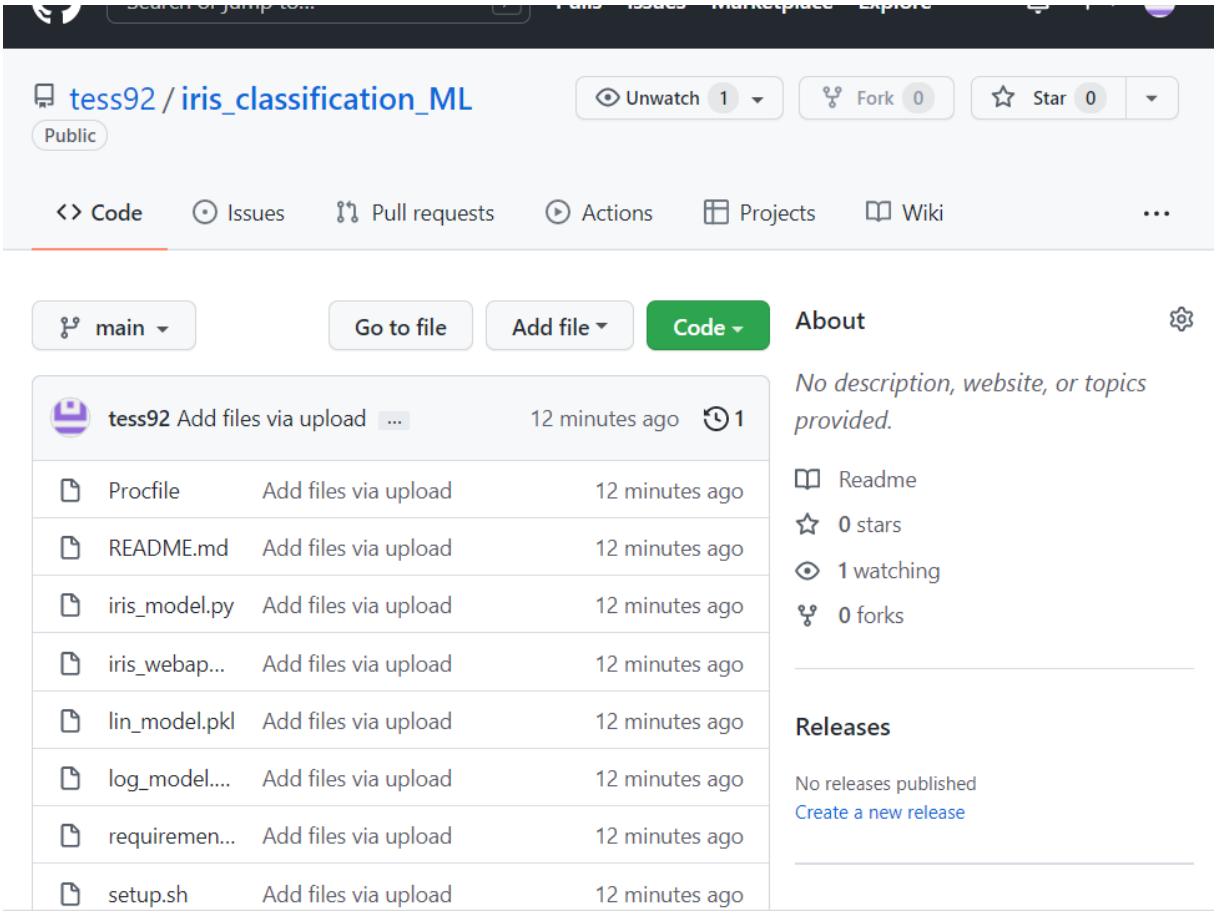
The model is available on github on: https://github.com/tess92/iris_classification_ML

3. Model deployment on Heroku

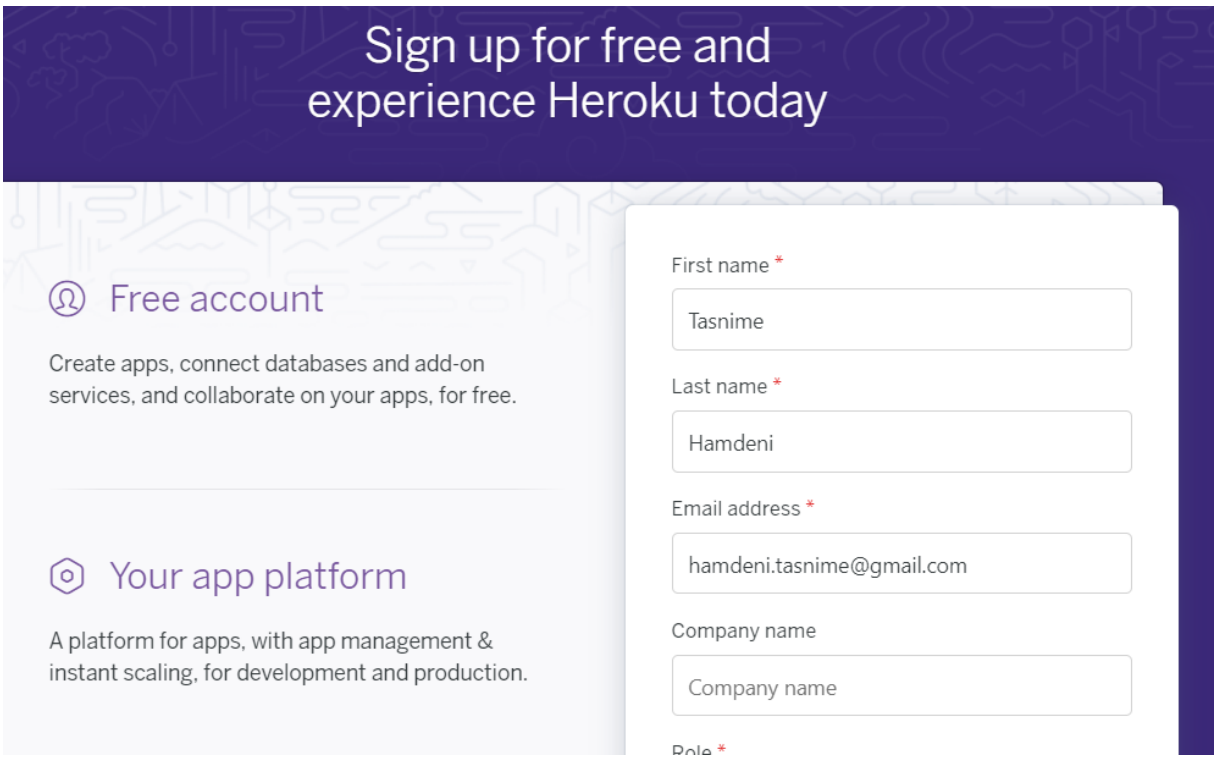
a. Create a new repository on github for the ML program



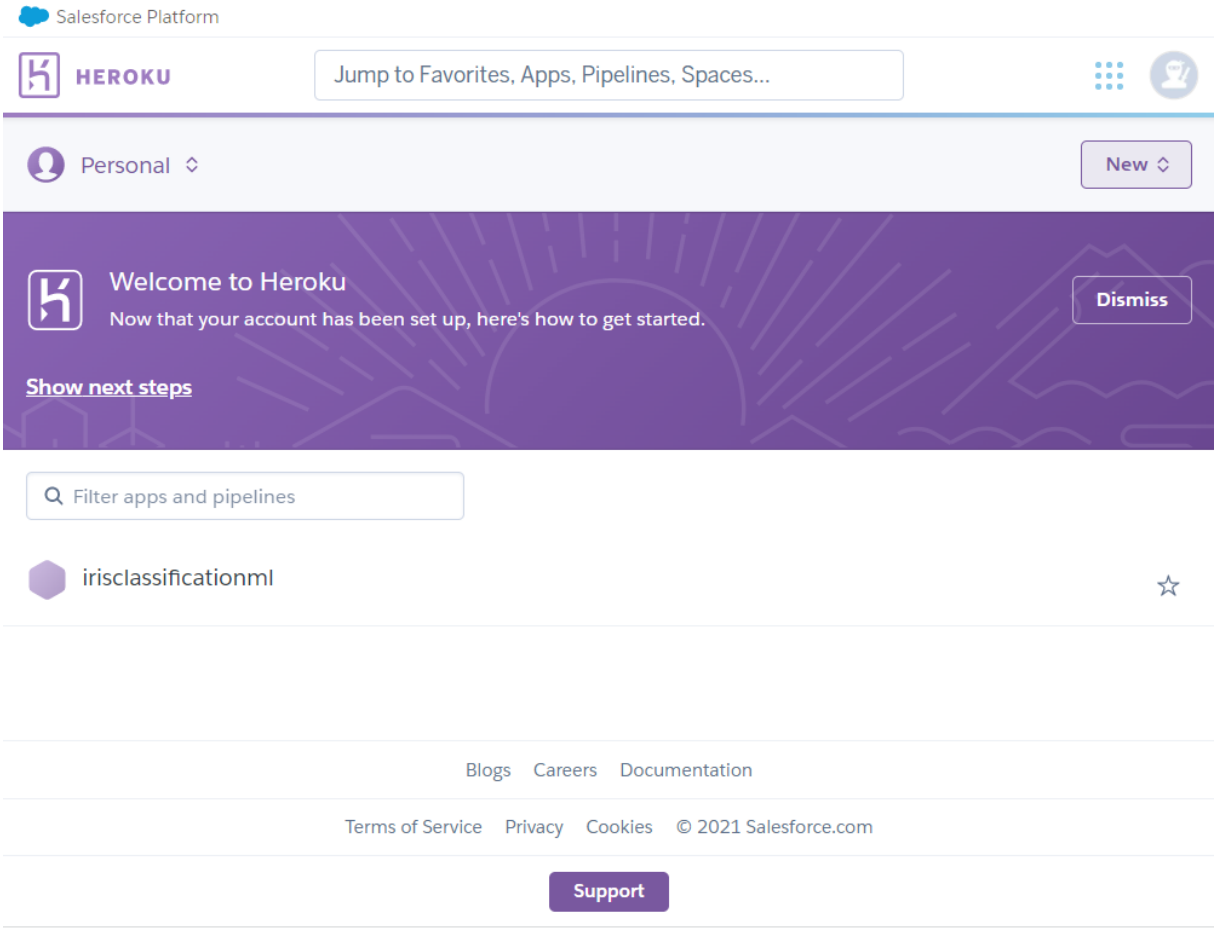
b. Upload the Machine Learning program on github



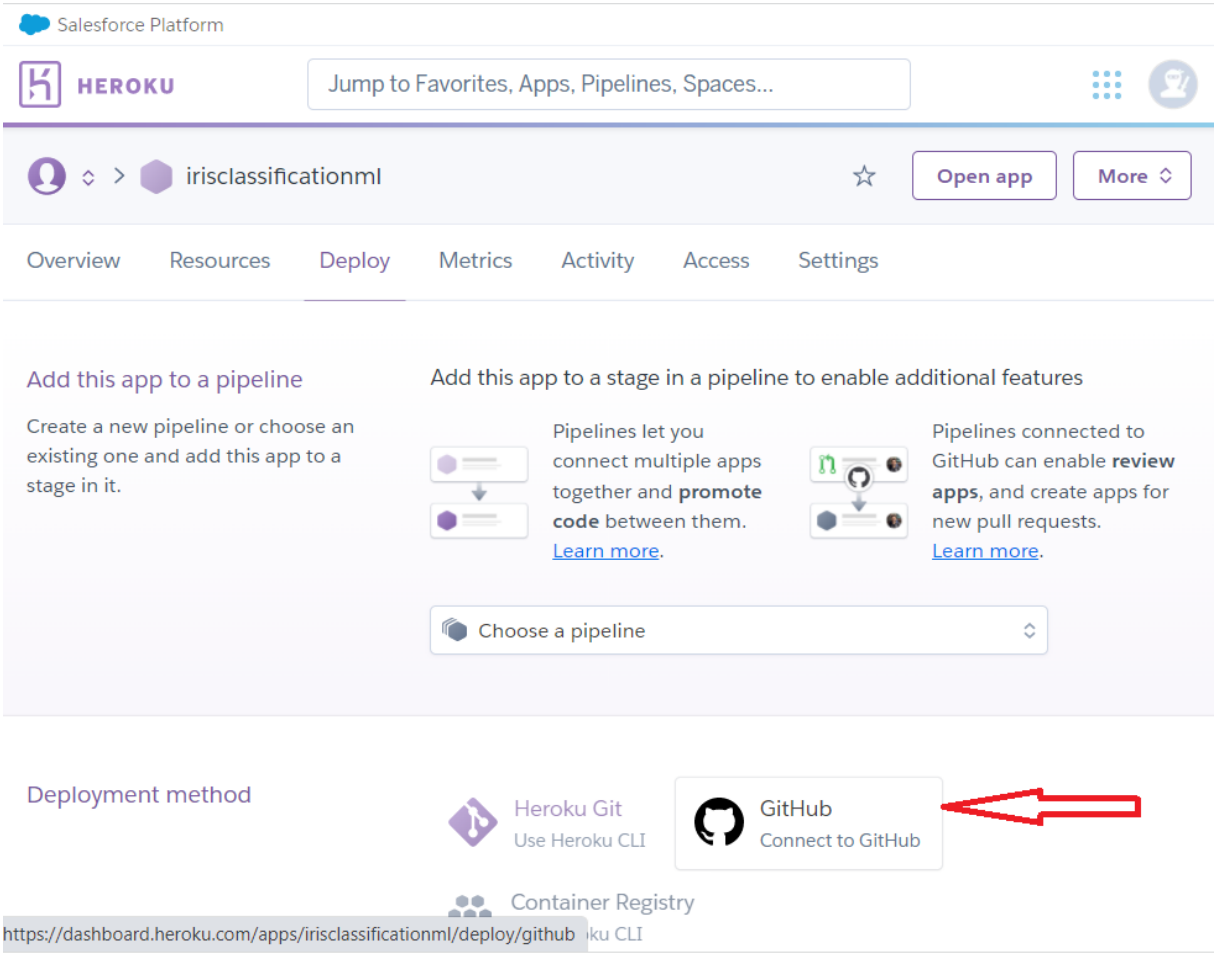
c. create an account on Heroku



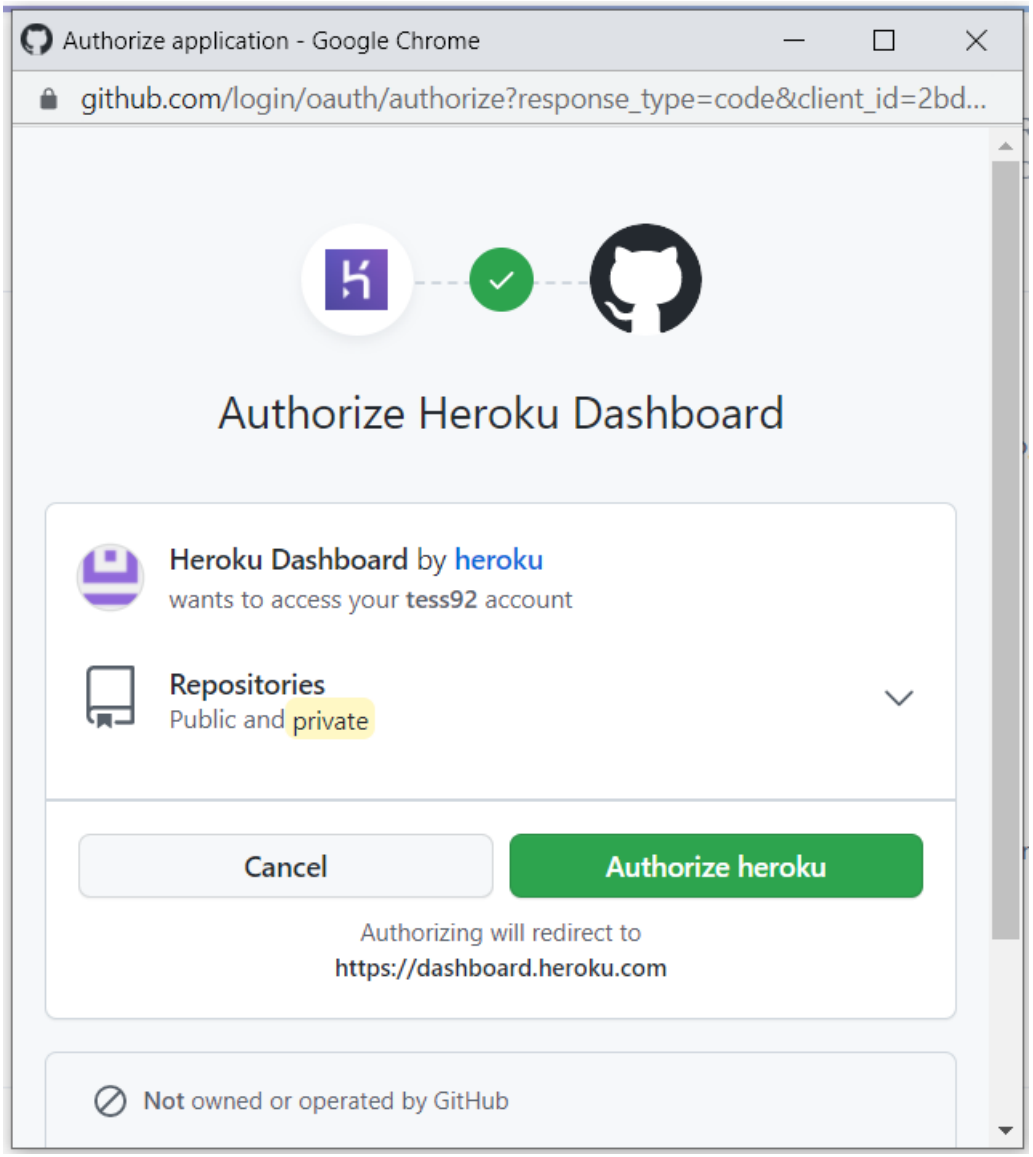
d. Create a new app



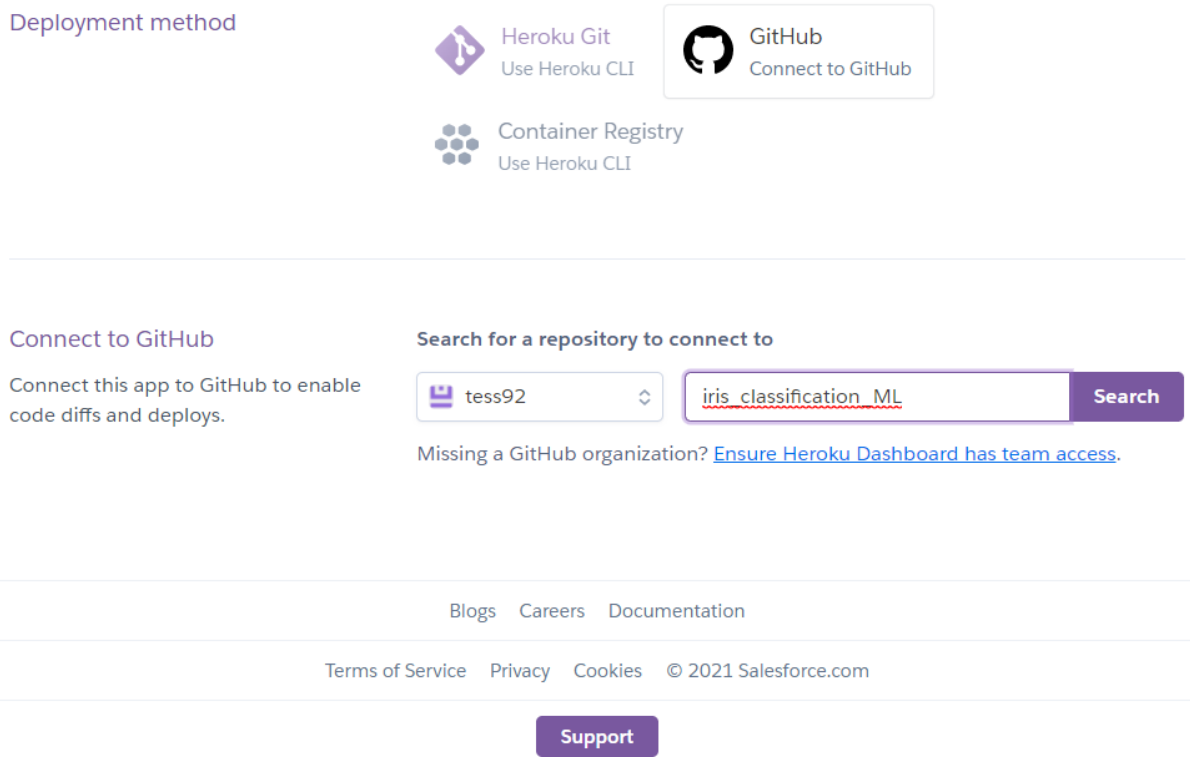
e. Connect the app to github



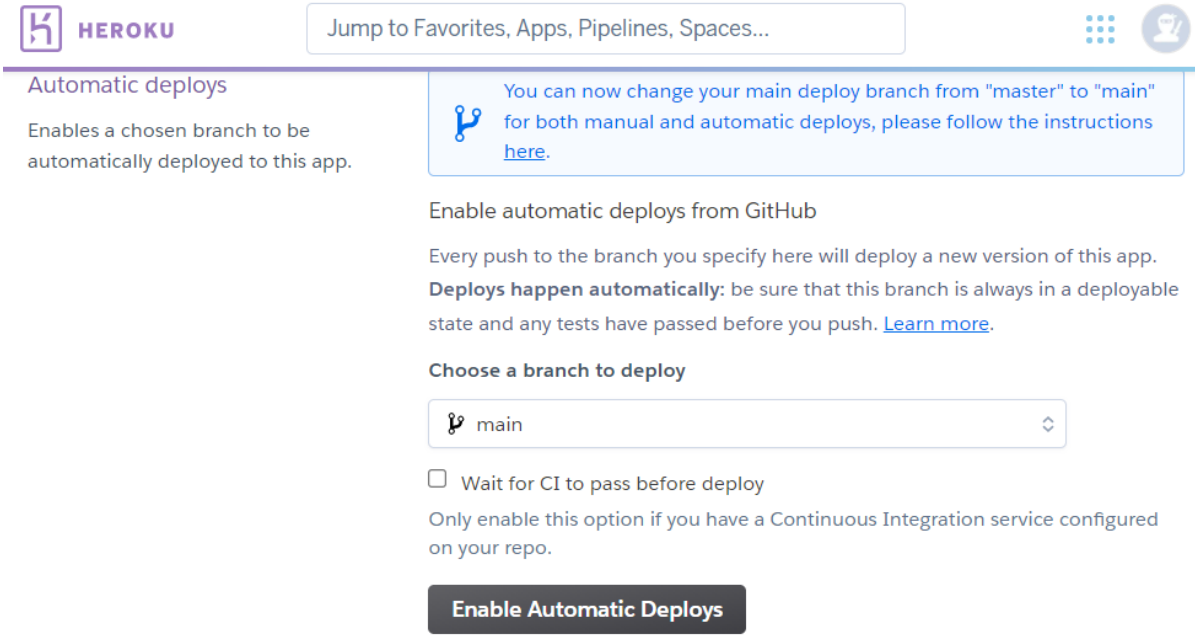
f. Authorize heroku to connect to the repositories in my github



g. Search for the ML repository to connect



h. If you make constant changes in the program, click on automatic deploy, if not click on manual deploy and deploy branch



i. build and deploy