

Week 5: Cloud and API deployment

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Specialization: Data science

1. Select toy data:

```
Entrée [7]: ...
```

```
# head
print(dataset.head(20))
```

print(dataset.nead(20))					
sepal-length	sepal-width	petal-length	petal-width	class	
5.1	3.5	1.4	0.2	Iris-setosa	
4.9	3.0	1.4	0.2	Iris-setosa	
4.7	3.2	1.3	0.2	Iris-setosa	
4.6	3.1	1.5	0.2	Iris-setosa	
5.0	3.6	1.4	0.2	Iris-setosa	
5.4	3.9	1.7	0.4	Iris-setosa	
4.6	3.4	1.4	0.3	Iris-setosa	
5.0	3.4	1.5	0.2	Iris-setosa	
4.4	2.9	1.4	0.2	Iris-setosa	
4.9	3.1	1.5	0.1	Iris-setosa	
5.4	3.7	1.5	0.2	Iris-setosa	
4.8	3.4	1.6	0.2	Iris-setosa	
4.8	3.0	1.4	0.1	Iris-setosa	
4.3	3.0	1.1	0.1	Iris-setosa	
5.8	4.0	1.2	0.2	Iris-setosa	
5.7	4.4	1.5	0.4	Iris-setosa	
5.4	3.9	1.3	0.4	Iris-setosa	
5.1	3.5	1.4	0.3	Iris-setosa	
5.7	3.8	1.7	0.3	Iris-setosa	
5.1	3.8	1.5	0.3	Iris-setosa	
	sepal-length 5.1 4.9 4.7 4.6 5.0 5.4 4.6 5.0 4.4 4.9 5.4 4.8 4.8 4.3 5.8 5.7 5.4 5.1	sepal-length sepal-width 5.1 3.5 4.9 3.0 4.7 3.2 4.6 3.1 5.0 3.6 5.4 3.9 4.6 3.4 5.0 3.4 4.4 2.9 4.9 3.1 5.4 3.7 4.8 3.4 4.8 3.0 4.3 3.0 5.8 4.0 5.7 4.4 5.4 3.9 5.1 3.5 5.7 3.8	sepal-length sepal-width petal-length 5.1 3.5 1.4 4.9 3.0 1.4 4.7 3.2 1.3 4.6 3.1 1.5 5.0 3.6 1.4 5.4 3.9 1.7 4.6 3.4 1.4 5.0 3.4 1.5 4.4 2.9 1.4 4.9 3.1 1.5 5.4 3.7 1.5 4.8 3.4 1.6 4.8 3.4 1.6 4.8 3.0 1.4 5.8 4.0 1.2 5.7 4.4 1.5 5.4 3.9 1.3 5.1 3.5 1.4 5.7 3.8 1.7	sepal-length sepal-width petal-length petal-width 5.1 3.5 1.4 0.2 4.9 3.0 1.4 0.2 4.7 3.2 1.3 0.2 4.6 3.1 1.5 0.2 5.0 3.6 1.4 0.2 5.4 3.9 1.7 0.4 4.6 3.4 1.4 0.3 5.0 3.4 1.5 0.2 4.4 2.9 1.4 0.2 4.9 3.1 1.5 0.1 5.4 3.7 1.5 0.2 4.8 3.4 1.6 0.2 4.8 3.4 1.6 0.2 4.8 3.0 1.1 0.1 5.8 4.0 1.2 0.2 5.7 4.4 1.5 0.4 5.1 3.5 1.4 0.3 5.7 3.8 1.7 0.3	

2. Save the model:

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

3. Model deployment on Heroku

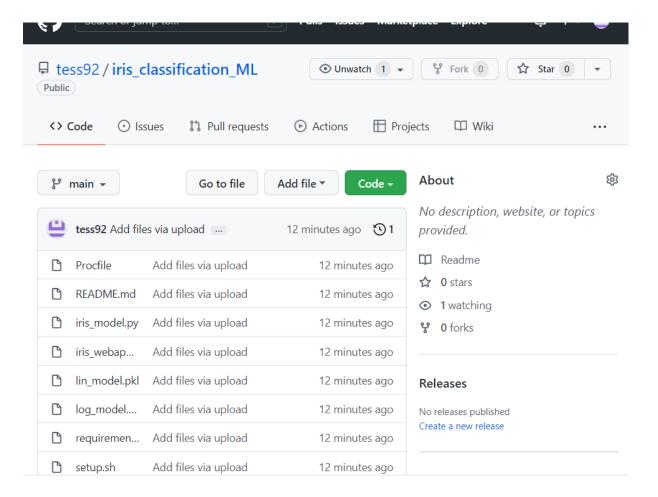
a. Create a new repository on github for the ML program

Create a new repository

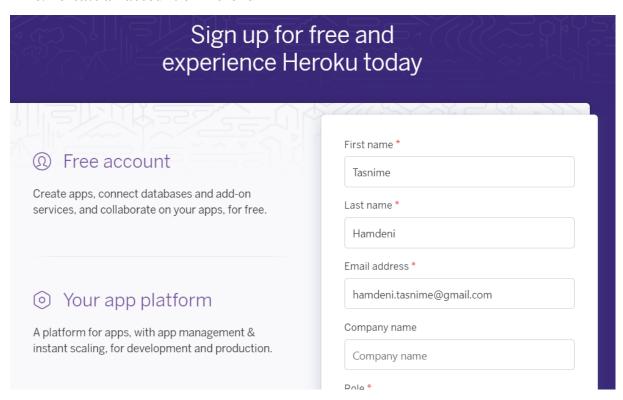
A repository contains all project files, including the revision history. Already have a project repository elsewhere? Import a repository.

Owner *	Repository name *
e tess)2 - /
Great repos	tory names are short and memorable. Need inspiration? How about refactored-dollop?
Description	(optional)
	ablic yone on the internet can see this repository. You choose who can commit.
\sim \sim	ivate u choose who can see and commit to this repository.
	s repository with: p if you're importing an existing repository.
□ Add a Ri	EADME file

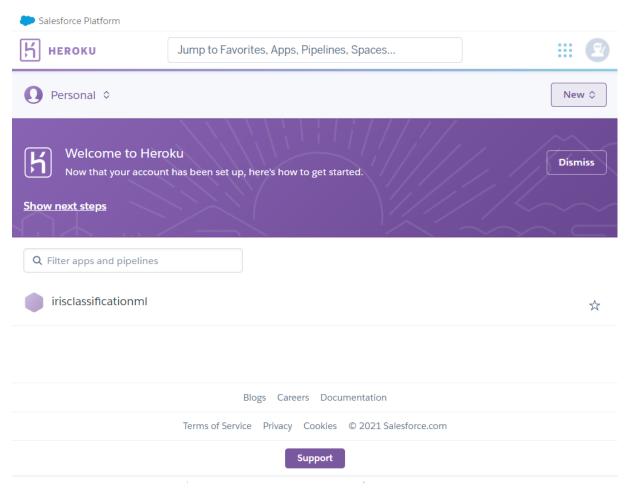
b. Upload the Machine Learning program on github



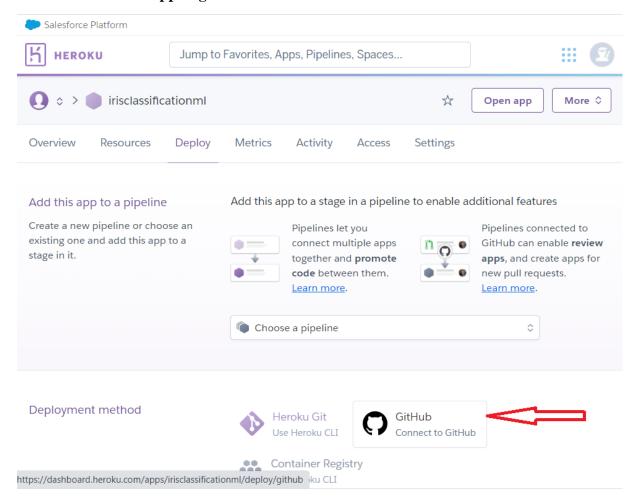
c. create an account on Heroku



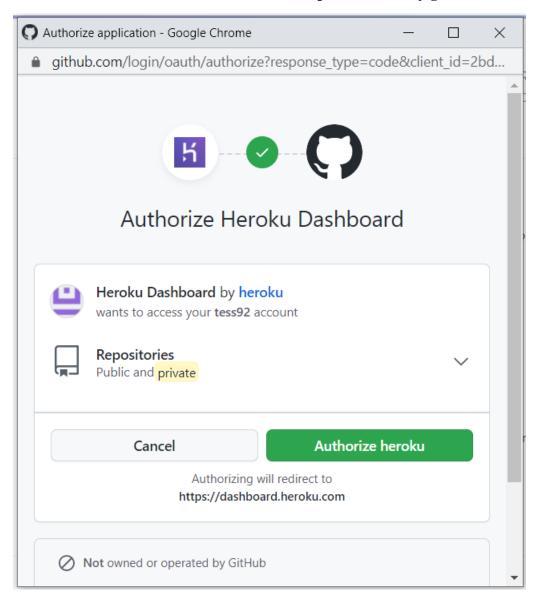
d. Create a new app



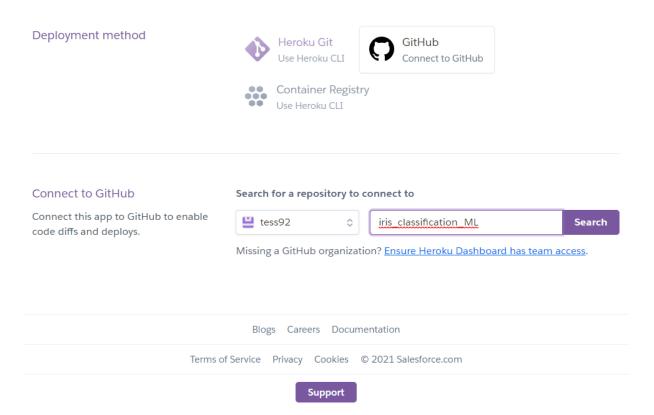
e. Connect the app to github



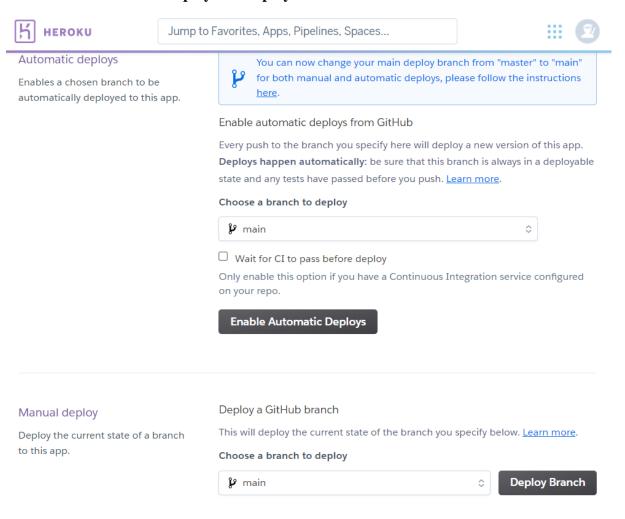
f. Authorize heroku to connect to the repositories in my github



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

