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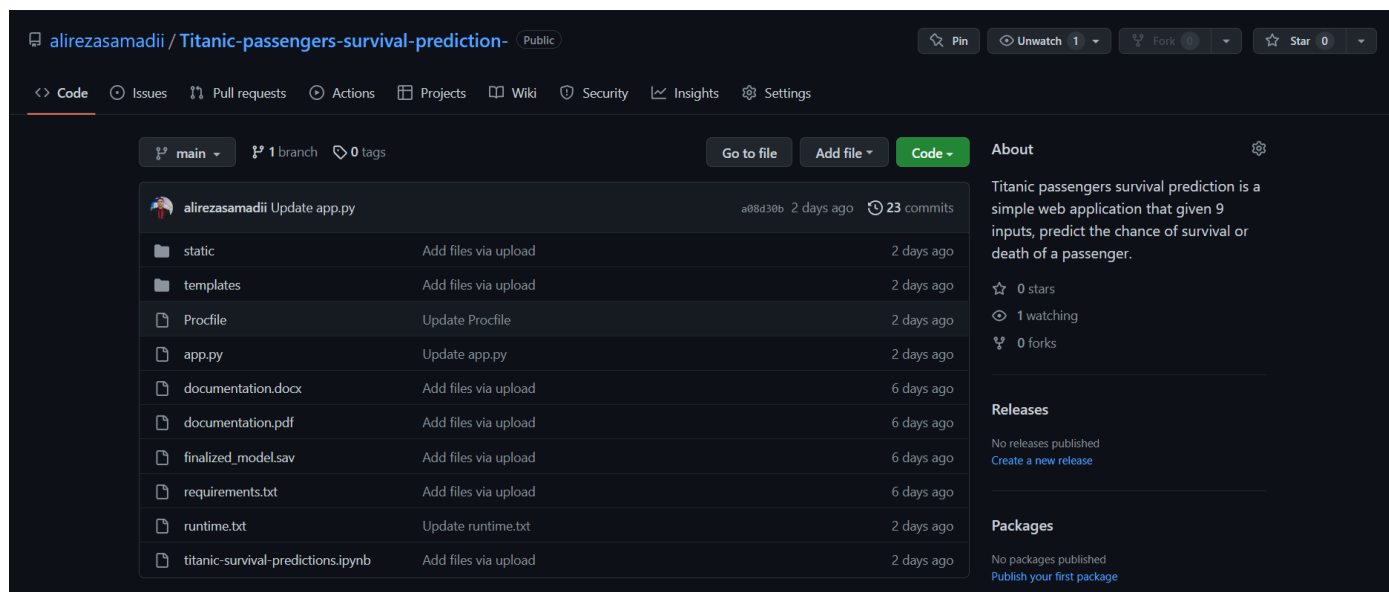
In order to have our ML web Application up and running we need to deploy it on a webservice. There are different alternatives for this task.

The first approach is to deploy it on opensource services such as Heroku , or Render.

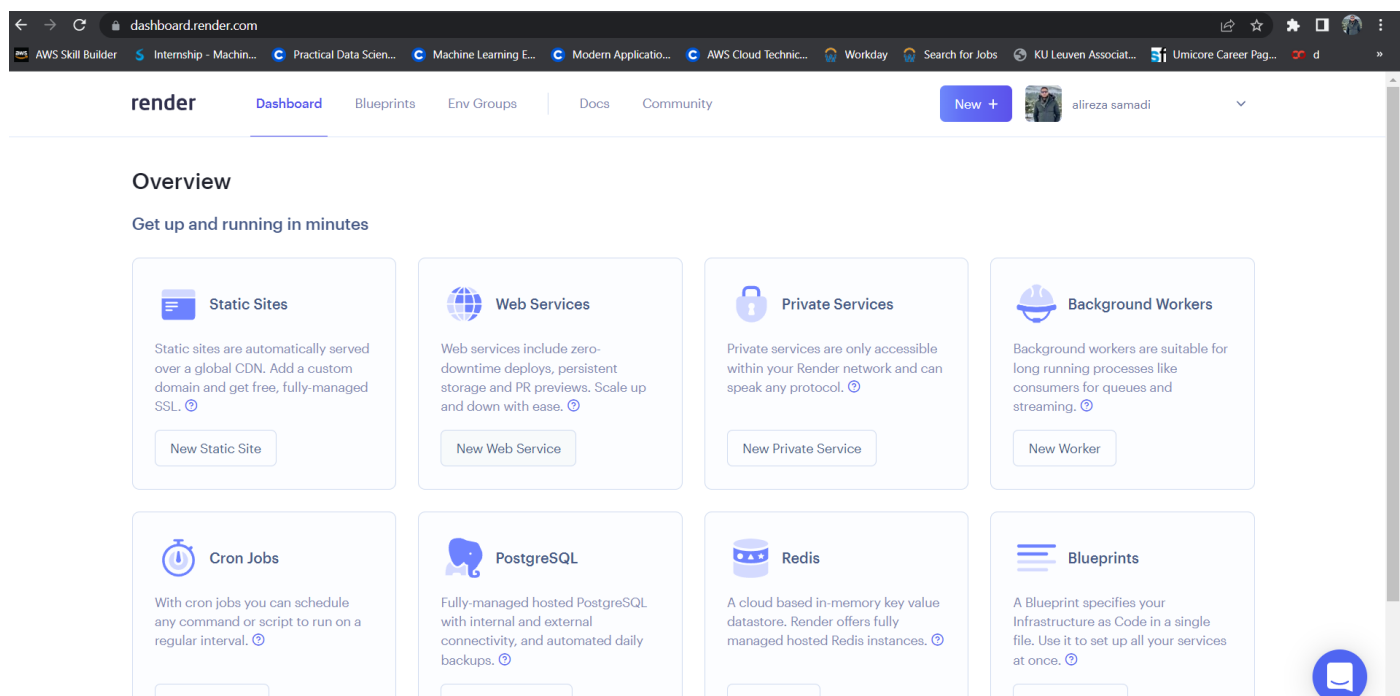
Another approach is to do so on platforms such as AWS.

Here my deployment is on Render.

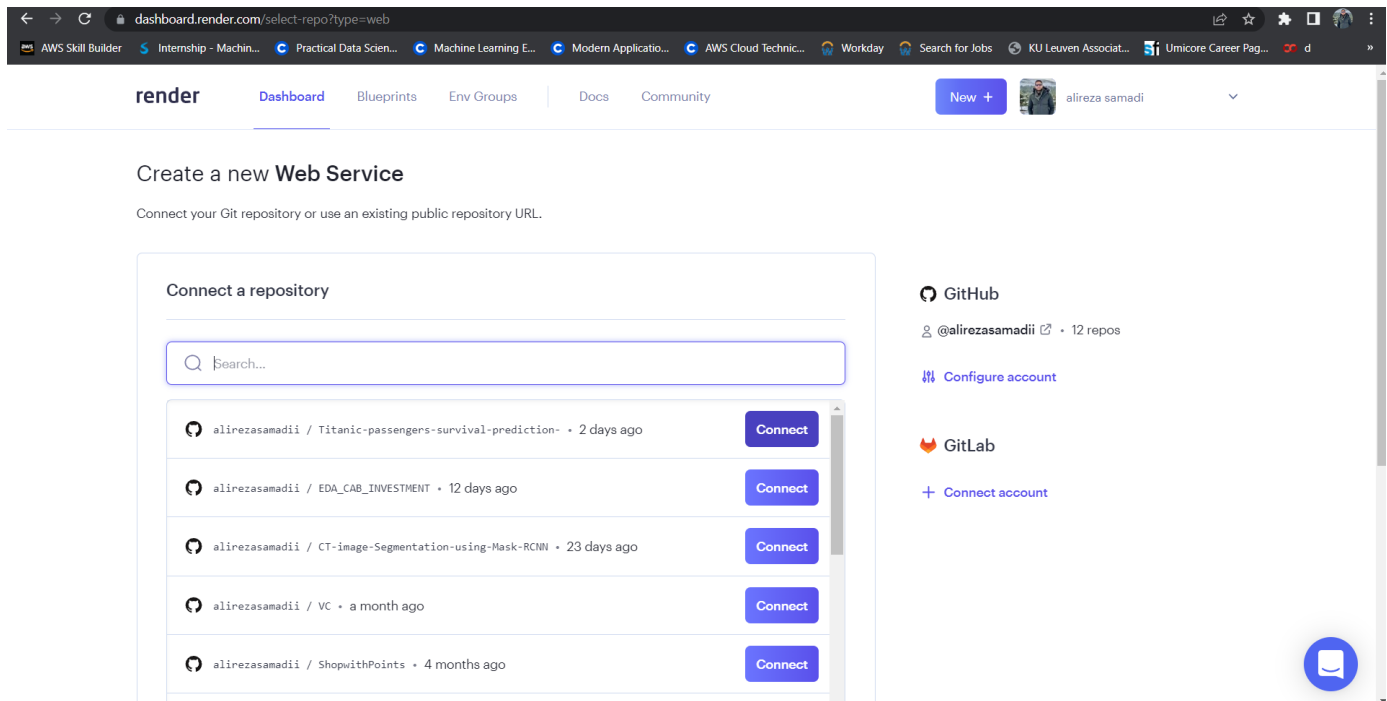
To do so, one approach is to have all our files in aa repository on GitHub:



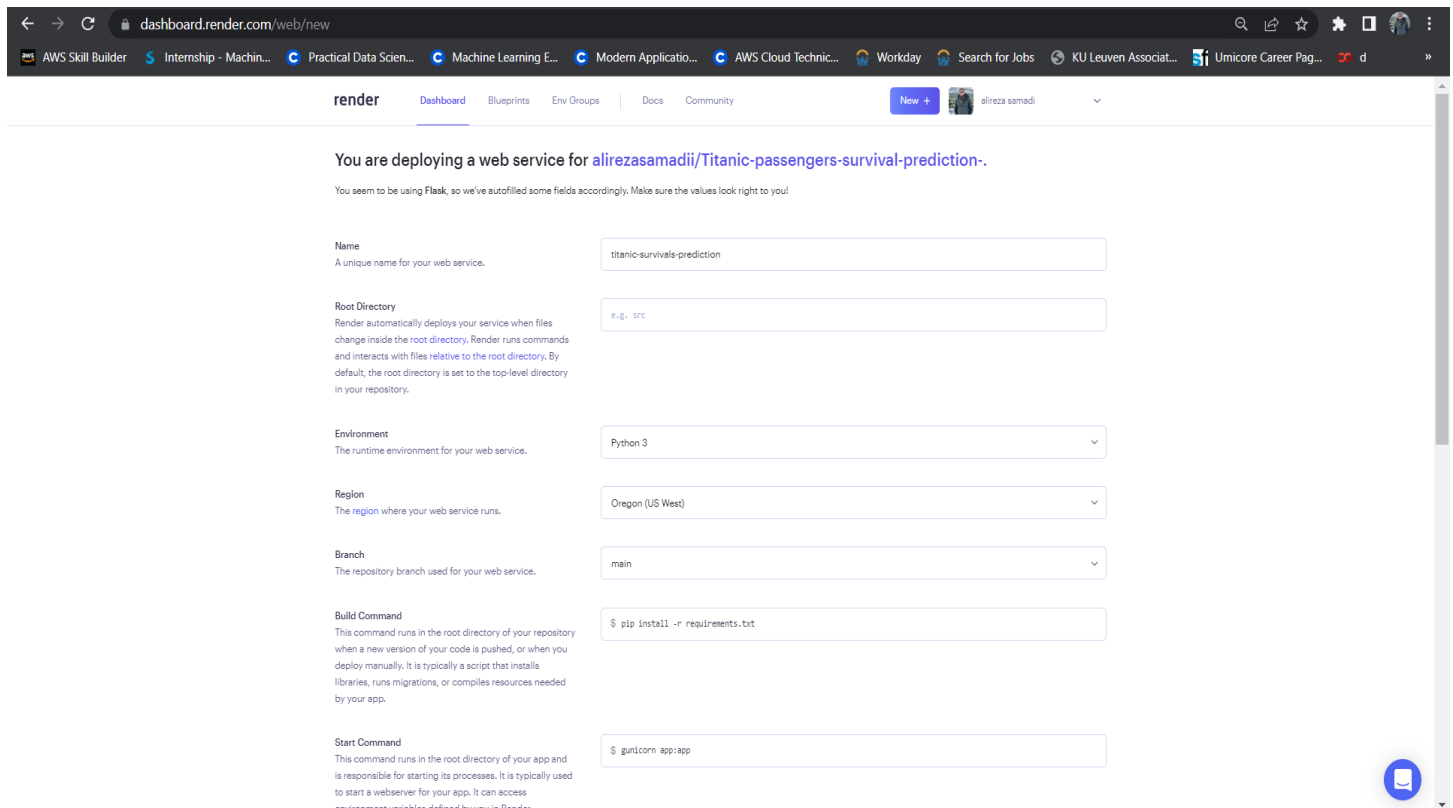
Then we go to render.com and after account creation we start a web service:



It is needed to connect GitHub account to Render Account. Here my GitHub is already connected to Render so it shows my repositories. Then we connect to the repository that we want to deploy; In this case, Titanic Repo:



After connecting to the repository we need to create a well descriptive name for our service, in this case: titanic-survivals-prediction. Then we scroll down and start our webservice.



And the deployment starts :

The screenshot shows the Render dashboard for a service named 'titanic-survivals-prediction'. The service is in a 'Building' state, indicated by a green 'In progress' label. The deployment log shows the following steps:

- Row 2 10:55:00 AM => Cloning from https://github.com/alirezamadi/titanic-passengers-survival-prediction-...
- Row 2 10:55:00 AM => Checking out commit a08d3ba3d045c6c69bac334059432cc973636f in branch main
- Row 2 10:55:03 AM => Downloading cache...
- Row 2 10:55:10 AM => Still downloading cache...
- Row 2 10:55:15 AM => Using Python version: 3.7.10

The left sidebar contains links to Events, Logs, Disks, Environment, Shell, PRs, Jobs, Sharing, Metrics, Scaling, and Settings. The top navigation bar includes links to Dashboard, Blueprints, Env Groups, Docs, and Community. A red arrow points to the service name 'titanic-survivals-prediction' in the top navigation bar.

After a while if the deployment is successful , we can see the following logs and run our service by clicking on the link provided under the service name:

The screenshot shows the Render dashboard for the same service, now in a 'Live' state, indicated by a green 'Live' label. The deployment log shows the following steps:

- Row 2 10:55:00 AM => Cloning from https://github.com/alirezamadi/titanic-passengers-survival-prediction-...
- Row 2 10:55:00 AM => Checking out commit a08d3ba3d045c6c69bac334059432cc973636f in branch main
- Row 2 10:55:03 AM => Downloading cache...
- Row 2 10:55:10 AM => Still downloading cache...
- Row 2 10:55:15 AM => Using Python version: 3.7.10
- Row 2 10:55:53 AM => Generating container image from build. This may take a few minutes...
- Row 2 10:56:04 AM => Uploading build...
- Row 2 10:56:07 AM => Build uploaded in 27s
- Row 2 10:56:10 AM => Build successful
- Row 2 10:56:10 AM => Deploying...
- Row 2 10:56:10 AM => Starting service with 'gunicorn app:app'
- Row 2 10:56:10 AM [2022-11-02 09:56:10 +0000] [55] [INFO] Starting gunicorn 19.9.0
- Row 2 10:56:10 AM [2022-11-02 09:56:10 +0000] [55] [INFO] Listening at: http://0.0.0.0:10000 (55)
- Row 2 10:56:10 AM [2022-11-02 09:56:10 +0000] [55] [INFO] Using worker: sync
- Row 2 10:56:10 AM [2022-11-02 09:56:10 +0000] [55] [INFO] Booting worker with pid: 65
- Row 2 10:56:10 AM 127.0.0.1 - - [02/Nov/2022:09:56:19 +0000] "GET / HTTP/1.1" 200 3465 "-" "Go-http-client/2.0"


The left sidebar contains links to Events, Logs, Disks, Environment, Shell, PRs, Jobs, Sharing, Metrics, Scaling, and Settings. The top navigation bar includes links to Dashboard, Blueprints, Env Groups, Docs, and Community. A red arrow points to the service name 'titanic-survivals-prediction' in the top navigation bar.

The web application will look like the following and works fine !

titanic-survivals-prediction.onrender.com/predict

AWS Skill Builder Internship - Machin... Practical Data Scien... Machine Learning E... Modern Applicatio... AWS Cloud Technic... Workday Search for Jobs KU Leuven Associat... Umicore Career Pag... d

Predict if a passenger Survived or Died in RMS-TITANIC crash



Chose passenger class: first class ▾
Chose passenger gender: Male ▾
Passenger Traveling with:: Alone ▾
Number of (parents+children) traveling
with the traveler: 1 ▾
Passenger embarked in: Southampton ▾
Age group: Baby ▾
The passenger had a cabin number: Yes ▾
Title: Mr ▾
Chose Fare Band: Cheapest ▾

Predict

This passenger had died with chance of:
97%