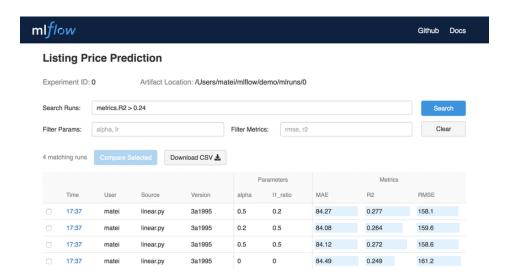
Devops Helm Coding Exercise

We have a web service called mlflow, which is an open-source ML model registry, it allows us to track and compare the different AI experiments we perform using an API and a nice UI.



We wish to deploy it on our Kubernetes cluster, So your task is to write an Helm Chart to allow you to deploy it on kubernetes.

- 1. Build an Helm deployment for mlFlow according to the following specification -
 - A web service deployment -
 - Use docker hub image larribas/mlflow
 - You can run it by calling

```
mlfow server --host=0.0.0.0 --port=80 \
--backend-store-uri={postgres-connection-string}\
--serve-artifacts \
--artifacts-destination {s3 or some local path}
```

- Plan your deployment for horizontal scaling and high availability.
- An ingress controller
 - An https endpoint ingress controller for the service, so we can access it from outside the network.
- A postgresql deployment
 - For simplicity, let's start with a K8S hosted PostgresSQL.
 - Allow me to replace it with a SAAS managed DB, if i wish.
- A storage of your choice for the mlflow artifact files

- 2. How can you make sure this application does not go out of hand and consume all the cluster resources?
- 3. How would you collect logs from this app for later analysis? Where and how would you save it?

Few notes for the implementation -

- Feel free to use or reference any existing chart dependency (i.e i don't expect from you to implement your own postgresql chart).
- In a nutshell, if something already exists use it. don't try to reinvent it.