NFJS: MLOps Half Day

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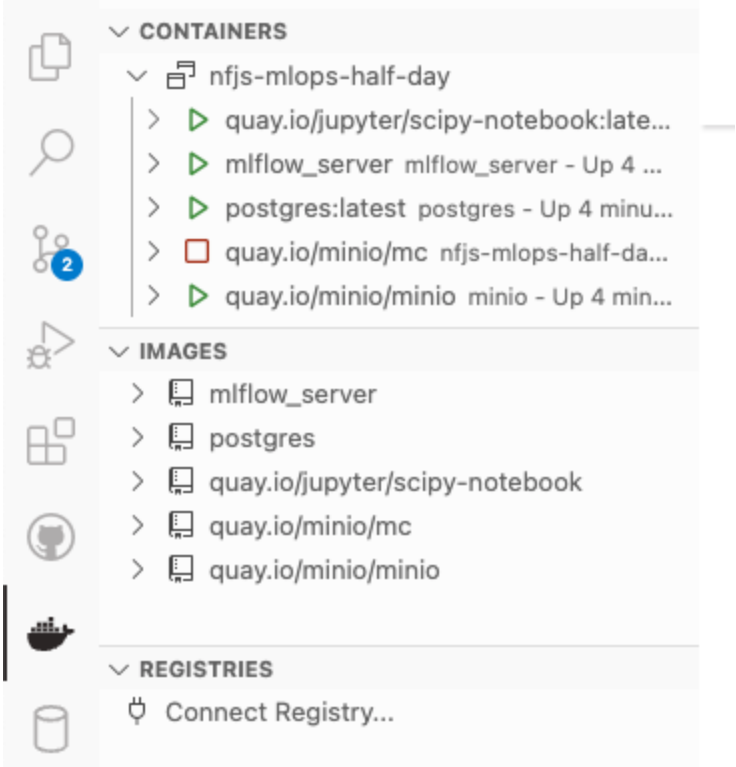
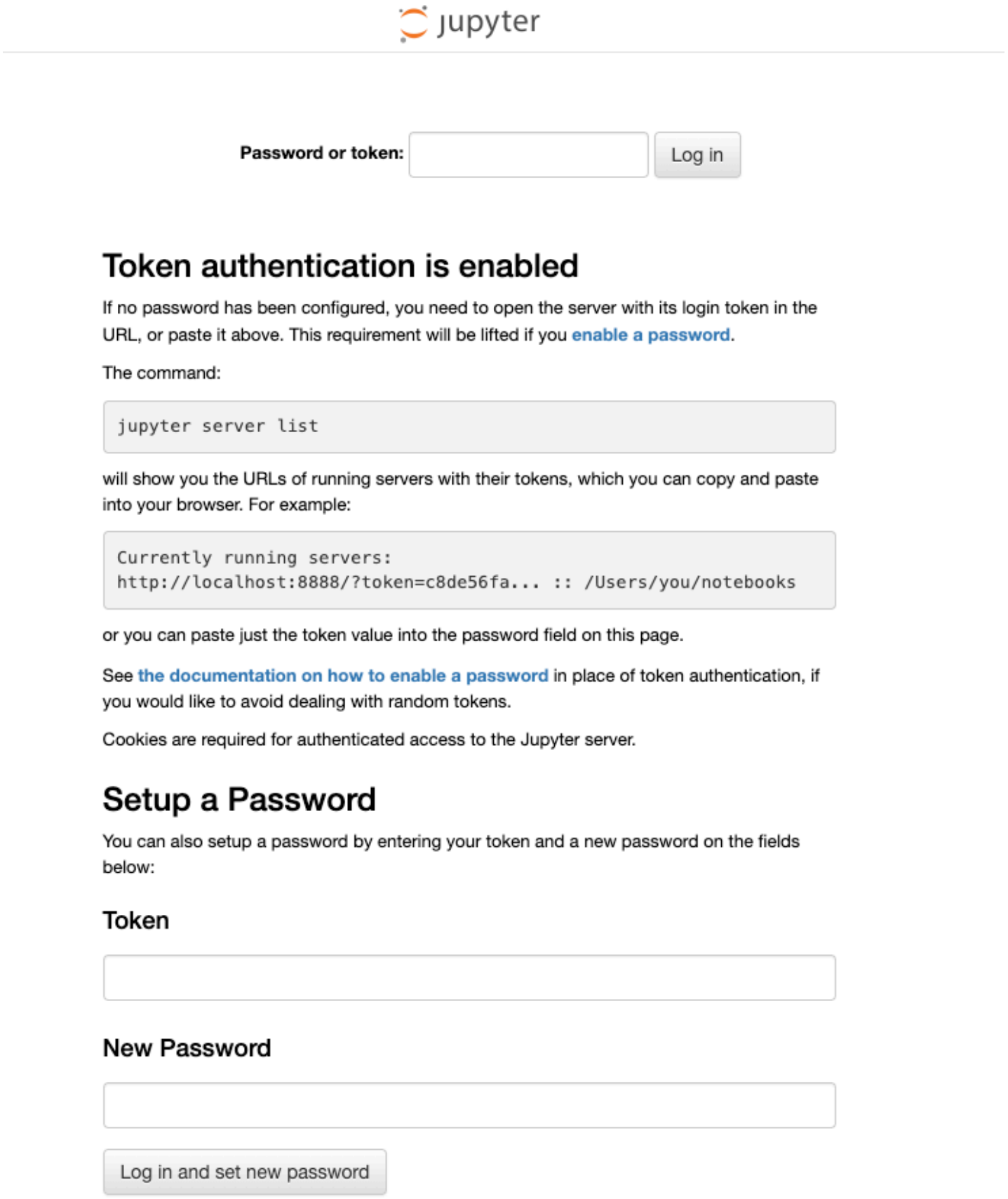
Table of Contents

MLFlow

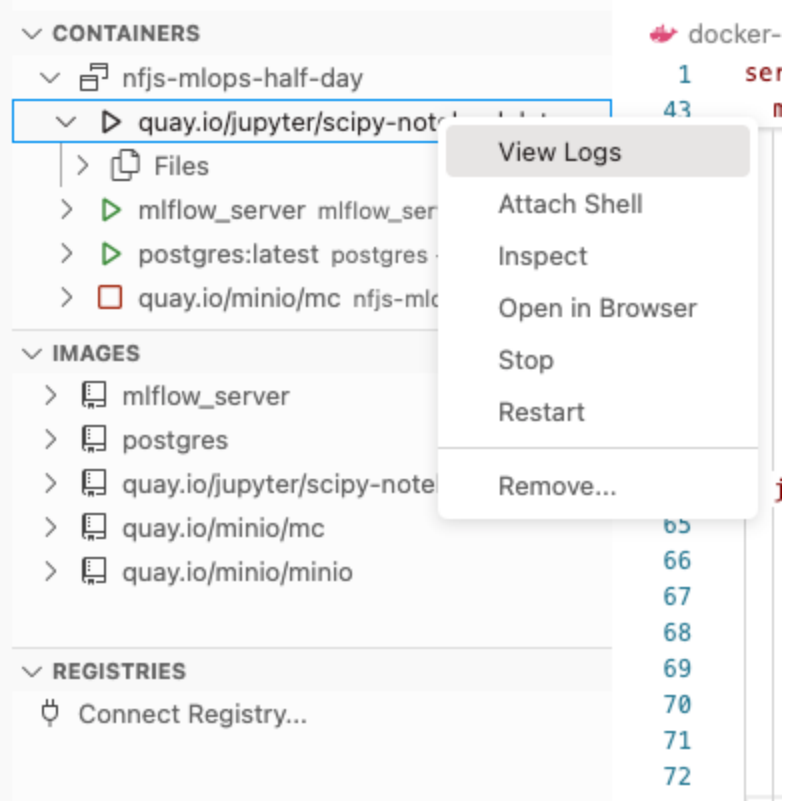
1. When opening the project nfjs-mlops-half-day, you will see the docker-compose run your application
2. Review the *docker-compose.yaml* and take a look at the components that we are using. We are creating an MLFlow application
3. You can ignore the warning for mlflow, we are building the application from a scratch.
4. When completed you can view the applications that are running at the docker window in your VSCode. The `mc` container is stopped because it was an initial container



5. Open the Jupyter Server notebook called *scipy-notebook* in the *Containers* box, right click and select "Open in Browser"



6. The page will ask for a key, right-click on the *scipy-notebook* and select "View Logs"

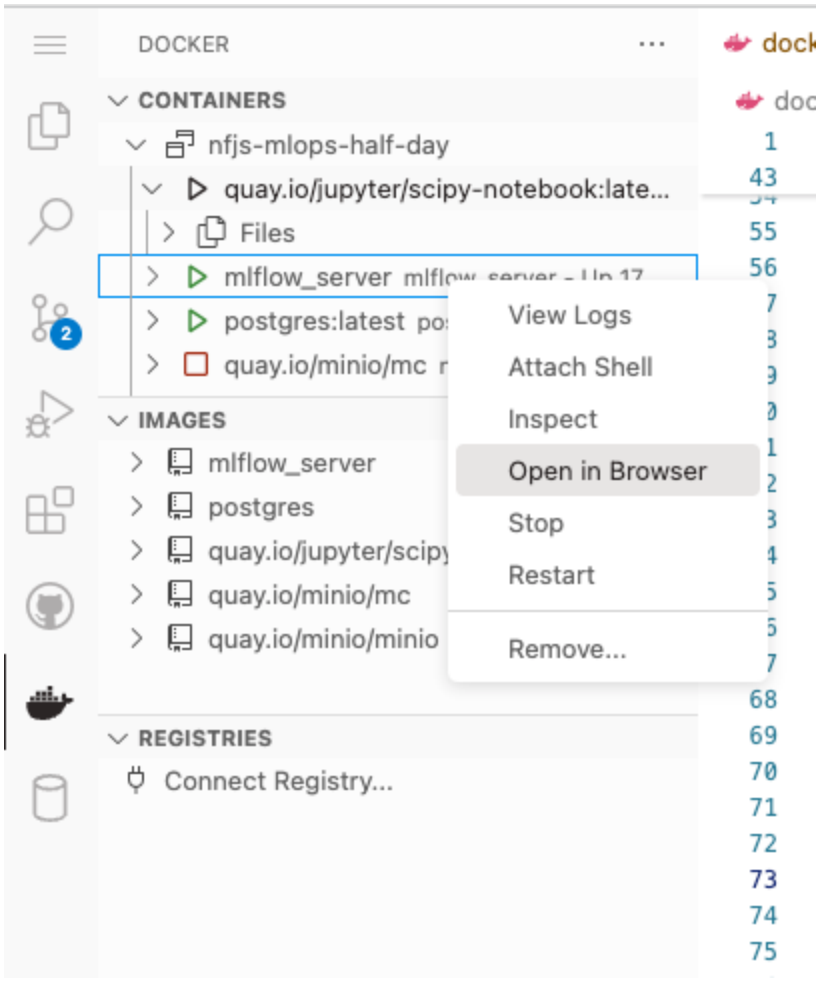


7. Locate the token in the logs, copy the token and use it in the notebook where it asks for the token

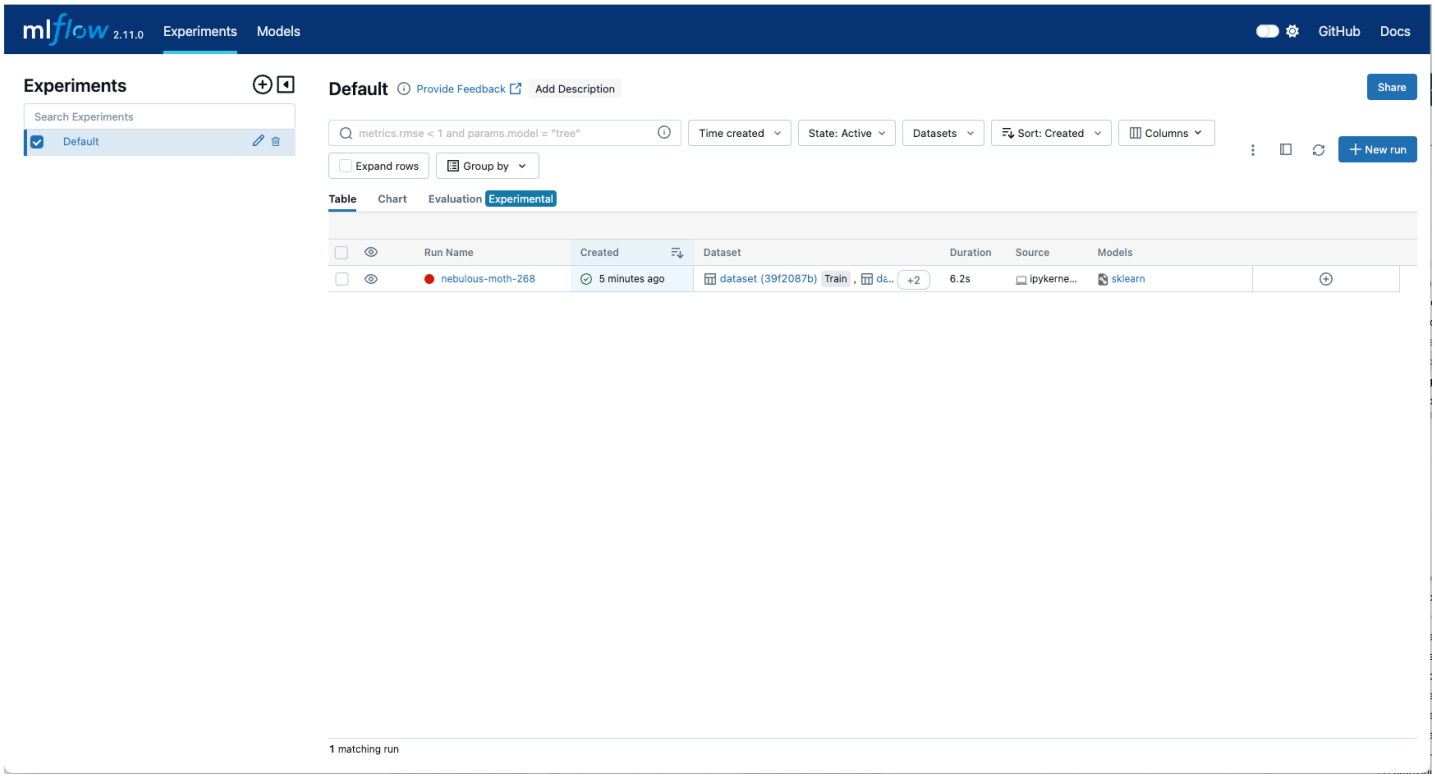
```
    To access the server, open this file in a browser:
        file:///home/jovyan/.local/share/jupyter/runtime/jpserver-1-open.html
    Or copy and paste one of these URLs:
        http://be85fe5932e7:8888/lab?token=35c975720527af87ef537d30a75bbe0e64f9d492b987684d
        http://127.0.0.1:8888/lab?token=35c975720527af87ef537d30a75bbe0e64f9d492b987684d
```

8. Open the *work* folder, and open the *LogisticRegression.ipynb* and we will describe what we are doing in this particlar notebook. Be sure to use kbd:CTRL+ENTER

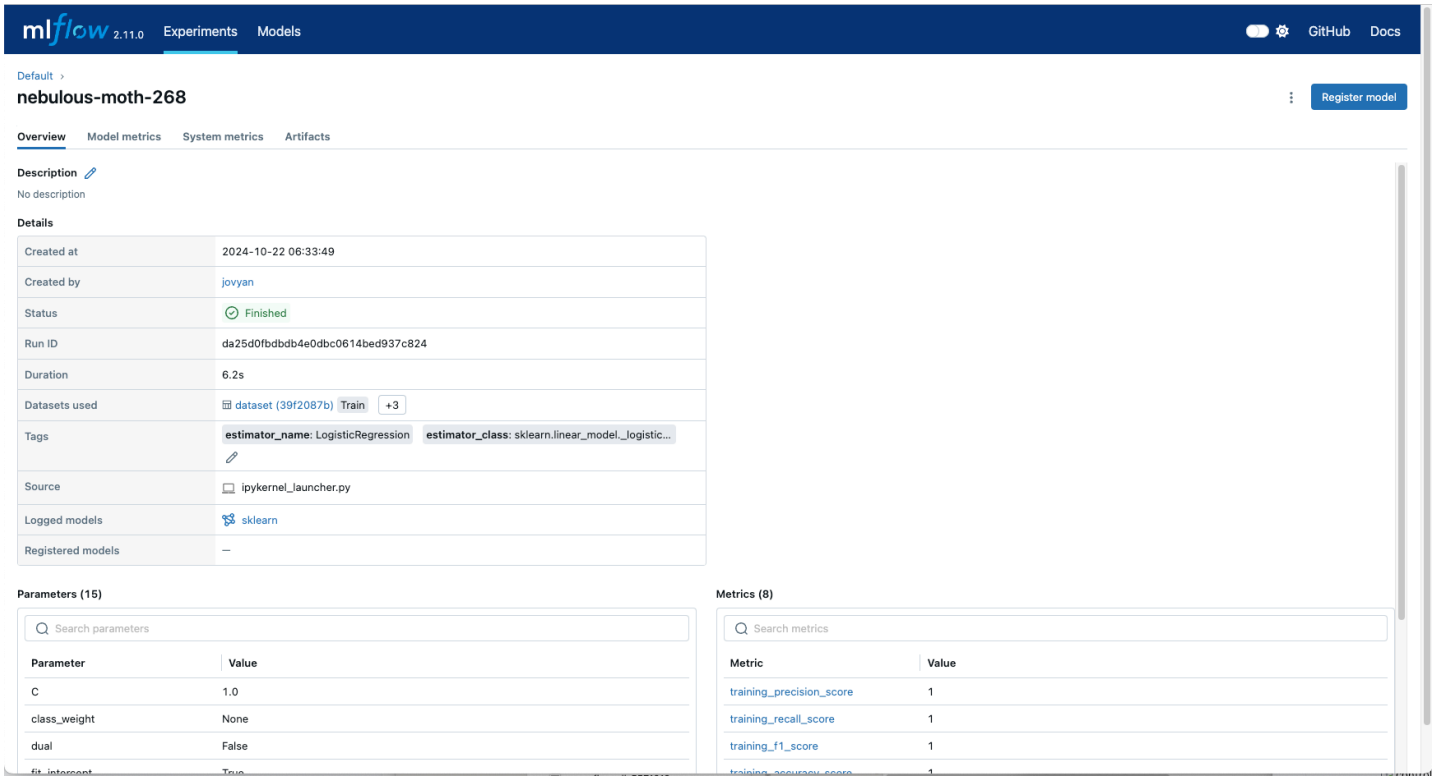
9. Go back to gitpod environment and open the ML Flow Web Application



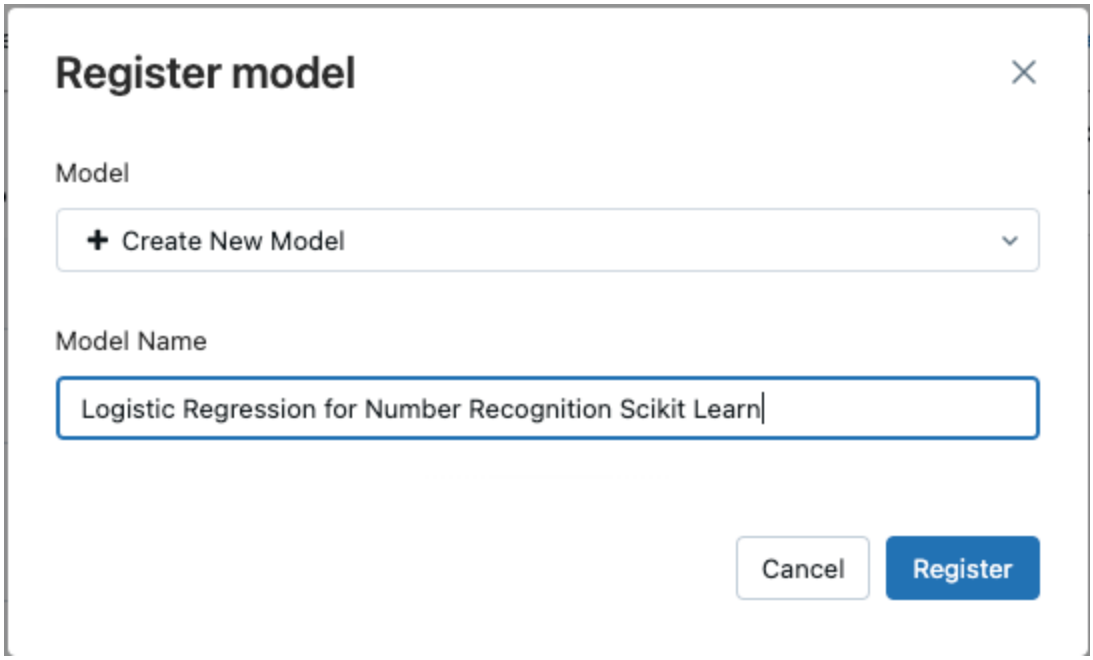
10. View the experiments in the MLFlow Website



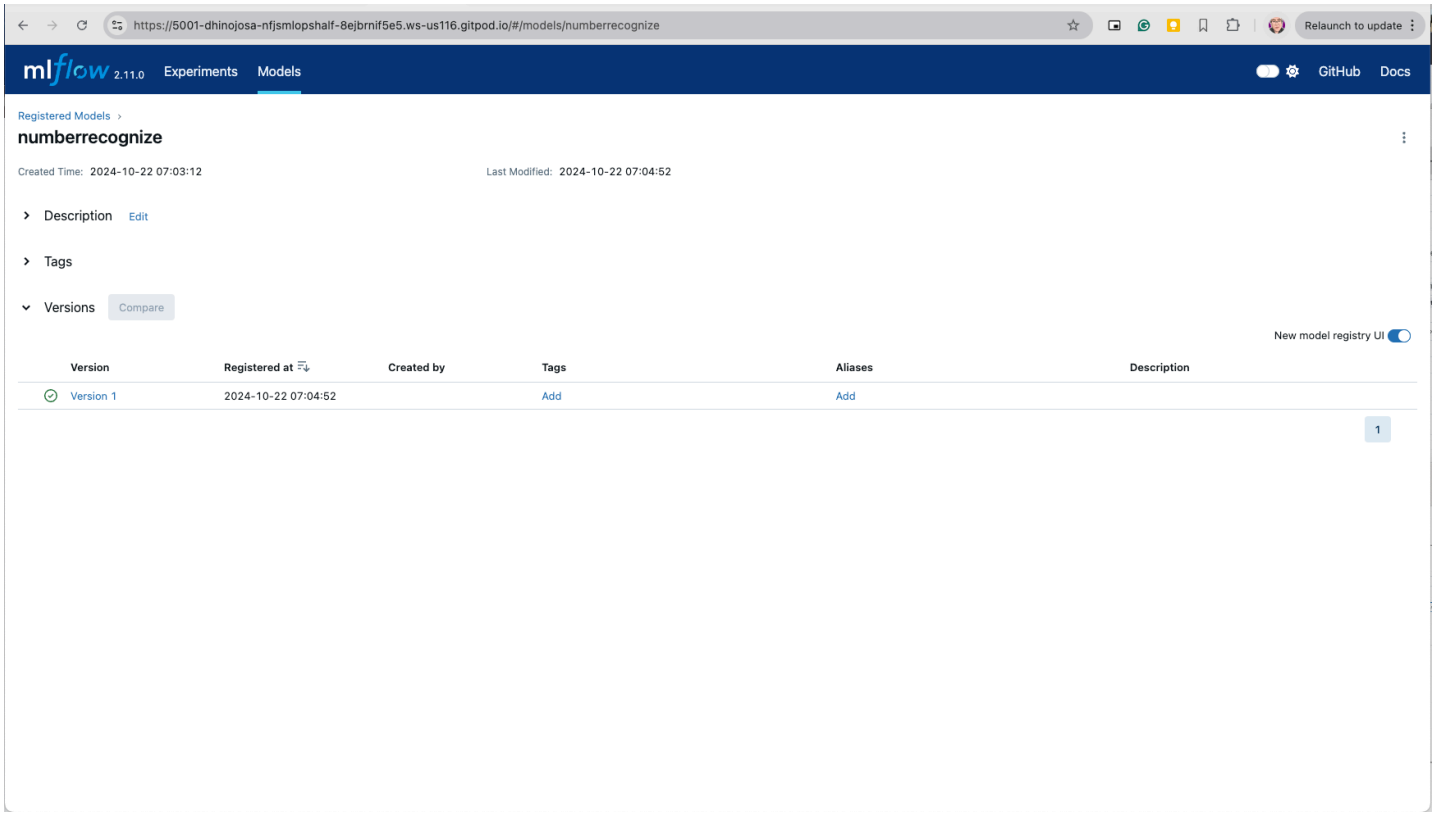
11. Open the Experiment we just ran, yours may be in a different name and click on the run name. This will show the properties of the model. Look around



12. Click on Artifacts and you will see the model, at this point you can click on［**Register**］Model and enter information about your model.



13. You can now Click on the Models and view the model. You can even apply tags and identify model that are important or even broken.



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