

Execution (in PyCharm):

We start running the application:

```

(.venv) jordipitarch@MBP-16-de-jordi pythonProjectMachineLearning % uvicorn main:app --reload
INFO: Will watch for changes in these directories: ['/Users/jordipitarch/PycharmProjects/pythonProjectMachineLearning']
INFO: Uvicorn running on http://127.0.0.1:8000 (Press CTRL+C to quit)
INFO: Started reloader process [48788] using WatchFiles
INFO: Started server process [48790]
INFO: Waiting for application startup.
INFO: Application startup complete.

```

Then, we can start logging and executing the models:

```
(.venv) jordi@pitarch@MBP-16-de-Jordi pythonProjectMachineLearning % curl -X POST "http://localhost:8000/login?username=Jordi&password=Jordi"
{"access_token": "Logged correctly, you have 30 minutes"%}
(.venv) jordi@pitarch@MBP-16-de-Jordi pythonProjectMachineLearning % curl -X POST "http://localhost:8000/train?dataset=dataStudents&model_name=students"
{"message": "Modelo trained correctly"%}
(.venv) jordi@pitarch@MBP-16-de-Jordi pythonProjectMachineLearning % curl -X POST "http://localhost:8000/train?dataset=IRIS&model_name=IRIS"
{"message": "Modelo trained correctly"%}
(.venv) jordi@pitarch@MBP-16-de-Jordi pythonProjectMachineLearning % curl -X POST "http://localhost:8000/train?dataset=winequality&model_name=wine"
{"message": "Modelo trained correctly"%}
(.venv) jordi@pitarch@MBP-16-de-Jordi pythonProjectMachineLearning %
```

When we execute the GET in the browser with the IRIS dataset, we get:

[illegible]

And finally, after training the models, we have the following execution:

```
(.venv) jordi@pitarchQMBP-16-de-Jordi pythonProjectMachineLearning % curl -X POST "http://localhost:8808/predictIRIS?model_name=IRIS&sepal_length=5.6&petal_length=5.6&petal_width=0.8"
{"prediction": "Iris-virginica"}

(.venv) jordi@pitarchQMBP-16-de-Jordi pythonProjectMachineLearning % curl -X POST "http://localhost:8808/predictStudents?model_name=students&Marital_status=1&Application_mode=20&Application_order=1&Course_Score=Attendance+2&Previous_qualification=1&Previous_qualification_grade=168.8&Nationality=1&Mother_qualification=37&Father_qualification=37&Mother_occupation=5&Father_occupation=5&Admission_mode=125.5&Displaced=0&Educational_special_needs=0&B0toB10tuition_fees_up_to_date=0&B6gender=0&Scholarship_holder=0&Age_at_enrollment=28&International=0&Curricular_units_1st_sem_created=0&Curricular_units_1st_sem_enrolled=6&Curricular_units_1st_sem_evaluations=6&Curricular_units_1st_sem_approved=5&Curricular_units_1st_sem_without_evaluations=0&Curricular_units_2nd_sem_created=0&Curricular_units_2nd_sem_enrolled=6&Curricular_units_2nd_sem_evaluations=1&Curricular_units_2nd_sem_approved=6&Curricular_units_2nd_sem_without_evaluations=0&Unemp_employment_rate=2.7&Unemployment_rate=5.4&Dropout=0.7"

{"prediction": "Graduate"}

(.venv) jordi@pitarchQMBP-16-de-Jordi pythonProjectMachineLearning % curl -X POST "http://localhost:8808/predictWine?model_name=wine&fixed_acidity=5&volatile_acidity=0.2&chlorogenic_acid=0.2&residual_sugar=1&chlorides=0&free_sulfur_dioxide=4&total_sulfur_dioxide=4&density=1&pH=3&sulphates=0.4&alcohol=8&quality=6"
{"prediction": "red"}

(.venv) jordi@pitarchQMBP-16-de-Jordi pythonProjectMachineLearning %
```