# Jupyter Notebook in Amazon SageMaker Unified Studio

## Objective

Deploy and run a machine learning notebook (Iris\_classification\_code.ipynb) using Amazon SageMaker Unified Studio—leveraging a custom SageMaker Domain.

## Step-by-Step Process

1. 1. Creating a SageMaker Domain

In the AWS Console, navigated to Amazon SageMaker → Domains.

Selected Quick Setup and used the default or custom domain name.

Completed domain creation.

1. 2. Accessing Unified Studio via the Custom Domain

From the SageMaker console, selected the newly created domain.

Clicked “Open Studio” to launch SageMaker Unified Studio under that domain.

1. 3. Creating a New Project in Unified Studio

On the Unified Studio landing page, clicked “Create project”.

Entered project details:

* Project Name: My\_iris\_project

1. 4. Launching the JupyterLab IDE

In the project’s overview page, selected “Build” → “JupyterLab”.

SageMaker launched the JupyterLab environment tied to iris-classification-project.

1. 5. Uploading Notebook and Dataset

In JupyterLab’s File Browser pane, clicked the Upload Files button.

* Uploaded:
* Iris\_classification\_code.ipynb
* iris\_dataset.csv

1. 6. Configuring and Running the Notebook

Opened Iris\_classification\_code.ipynb by double-clicking in the File Browser.

Selected Python 3 (Data Science) kernel.

## Outcome

Successfully ran the Iris classification notebook within a custom SageMaker Domain and Unified Studio project.