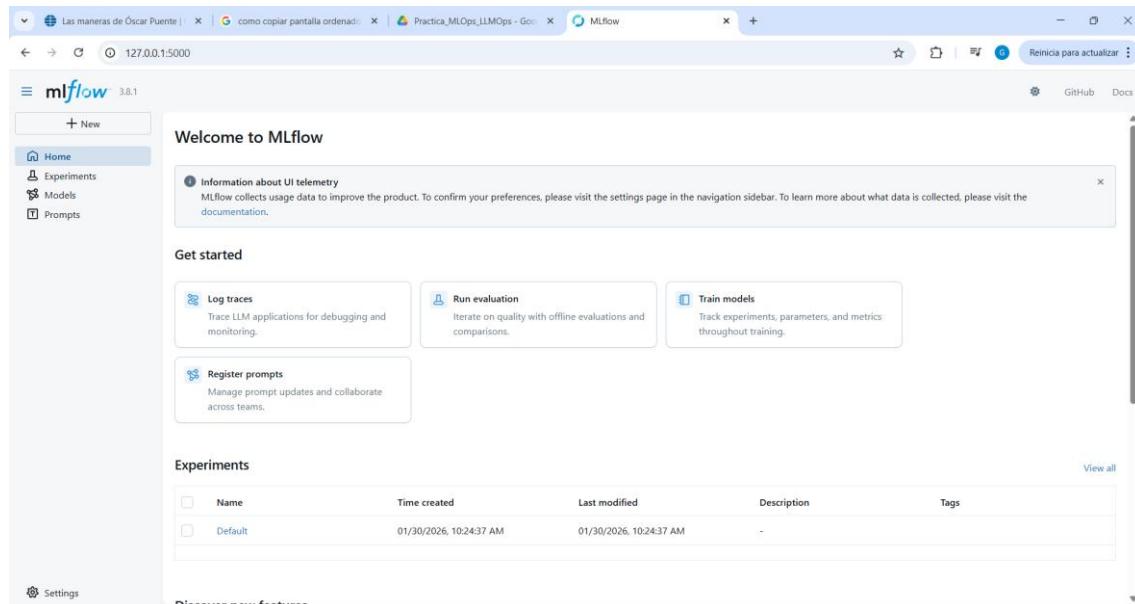
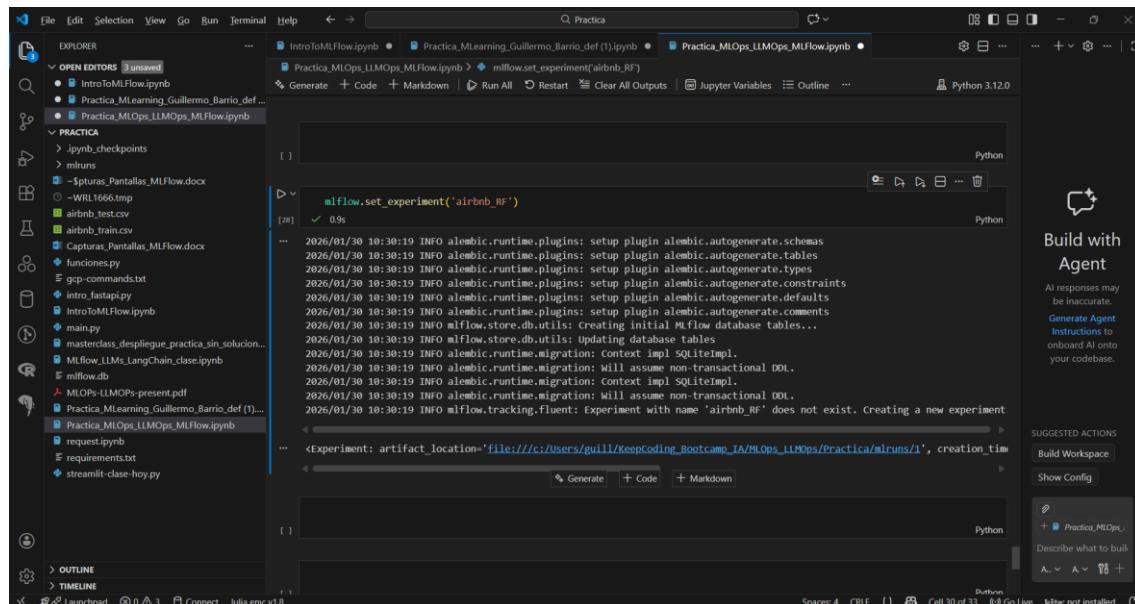


Copias de pantalla de MLFlow

Esta es la copia de pantalla del lanzamiento inicial de la GUI de MLFlow, que es algo diferente a lo que vimos en clase.



Esta pantalla muestra el comando inicial en VS Code.



En esta pantalla mostramos la creación del experimento Airbnb_RF, antes de haber hecho ninguna run.

The screenshot shows the 'mlflow' interface for the 'airbnb_RF' experiment. The 'Runs' tab is selected. A search bar at the top filters for 'metrics.rmse < 1 and params.model = "tree"'. The table below has columns: Run Name, Created, Dataset, Duration, Source, and Models. A message 'No runs have been logged yet.' is centered, with a link to learn more about creating ML model training runs. At the bottom, it says '0 matching runs'.

En esta copia de pantalla mostramos los detalles del run airbnb_prueba, con las métricas, aún no habíamos subido ningún modelo.

The screenshot shows the 'mlflow' interface for the 'airbnb_prueba' run. The 'Overview' tab is selected. It displays the following details:

- Metrics**: R2 train (Value: 0.585), RMSE (Value: 24.5)
- Parameters**: Depth (Value: 4), Dimension (Value: 43)
- Status**: Finished
- Run ID**: 7606315283134bc285e37aa58e73a1e6
- Duration**: 63ms
- Source**: c:\Users\guill\AppData\Local\Programs\Python\Python312\lib\site-packages\ipykernel_launcher.py
- Logged models**: —
- Registered prompts**: —
- Datasets**: None
- Tags**: Add tags
- Registered models**: None

Ahora mostramos el run `airbnb_prueba_2`, que incluyó el subir el modelo regressor.

The screenshot shows the MLflow interface with the URL `127.0.0.1:5000#/experiments/1/runs?searchFilter=&orderBy=attributes.start_time&orderB... ALL&lifecycleFilter=Active&modelVersionFilter=`. The 'Runs' section lists two entries:

Run Name	Created	Dataset	Duration	Source	Models
airbnb_prueba_2	2 minutes ago	-	22.0s	c:\Users\guill...	regressor
airbnb_prueba	24 minutes ago	-	63ms	c:\Users\guill...	-

2 matching runs

Aquí se muestran algunos detalles del modelo regressor.

The screenshot shows the MLflow interface with the URL `127.0.0.1:5000#/experiments/1/models/m-a42028707a234cd93dbe8239a5671e0`. The 'regressor' model details page is displayed, showing the following information:

- Overview:** Not registered.
- Description:** No description.
- Metrics (2):**

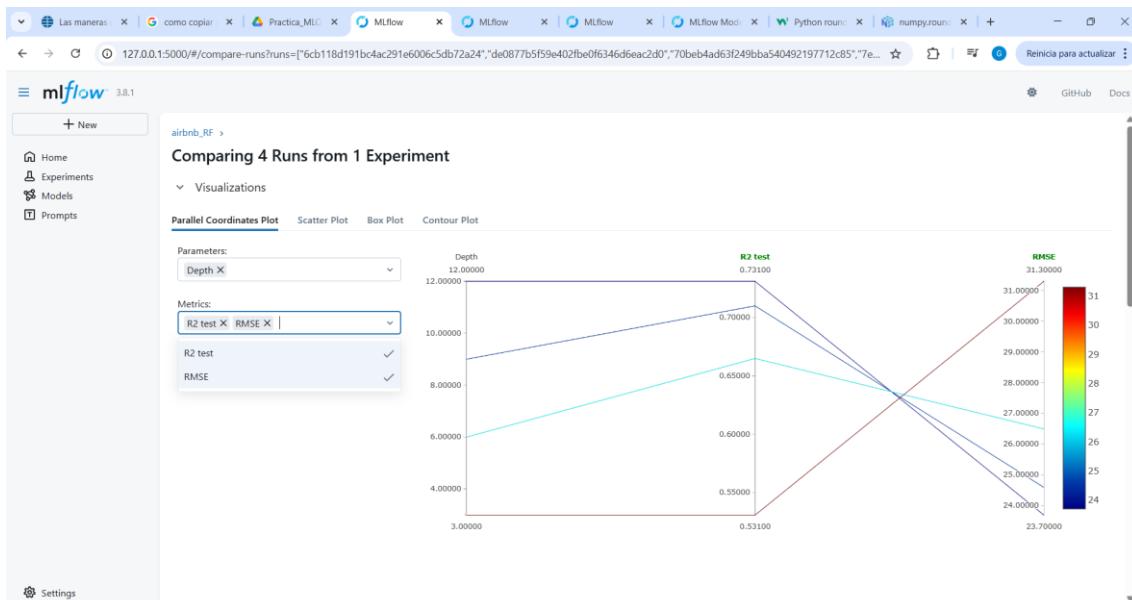
Metric	Dataset	Source run	Value
R2 test	-	airbnb_prueba_2	0.637
RMSE	-	airbnb_prueba_2	24.5
- About this logged model:**
 - Created at: 4 minutes ago
 - Created by: guill
 - Status: Ready
 - Model ID: m-a42028707a234cd93dbe8239a5671e0
 - Source run: airbnb_prueba_2
 - Source run ID: 1cf92a0d50b490da5d4d35...
 - Logged from: c:\Users\guill\AppData\Local\Programs\Python\Python312\lib\site-packages\pykernel_launcher.py
- Datasets used:** None
- Model versions:** None

Ahora mostramos unos cuantos runs, que incluyen en cada caso modelos con distintos nombres, que indican la profundidad. En estos casos, la dimensión del dataset utilizado es de 43.

Run Name	Created	Dataset	Duration	Source	Models
airbnb_RF	28 seconds ago	-	3.4s	c:\Users\...	regressor_12
airbnb_RF	34 seconds ago	-	3.5s	c:\Users\...	regressor_9
airbnb_RF	39 seconds ago	-	3.3s	c:\Users\...	regressor_6
airbnb_RF	44 seconds ago	-	3.3s	c:\Users\...	regressor_3
airbnb_prueba_2	1 minute ago	-	3.5s	c:\Users\...	regressor_12
airbnb_prueba_2	1 minute ago	-	3.6s	c:\Users\...	regressor_9
airbnb_prueba_2	1 minute ago	-	3.9s	c:\Users\...	regressor_6
airbnb_prueba_2	1 minute ago	-	3.3s	c:\Users\...	regressor_3
airbnb_prueba_2	17 minutes ago	-	22.0s	c:\Users\...	regressor
airbnb_prueba	38 minutes ago	-	63ms	c:\Users\...	-

10 matching runs

En la captura siguiente mostramos la comparación de las profundidades con los R2 y los RMSE. Se ve que a mayor profundidad el R2 es mayor y el RMSE menor.



La siguiente captura muestra el modelo Regressor_12_dim_43_dim, al que hemos asignado el alias de preferred.

The screenshot shows the MLflow UI at the URL 127.0.0.1:5000/#/models/Regressor_12_depth_43_dims/versions/1. The interface is titled "mlflow 3.8.1". On the left, there's a sidebar with "Home", "Experiments", "Models" (which is selected), and "Prompts". The main content area shows a "Version 1" entry for the "Regressor_12_depth_43_dims" model. It includes fields for "Registered At" (01/30/2026, 11:49:04 AM), "Last Modified" (01/30/2026, 11:49:04 AM), "Source Run" (airbnb_RF), "Aliases" (@ preferred), and "Stage (deprecated)" (None). A "Promote model" button is visible. Below these, there are sections for "Description" (with an "Edit" link), "Tags" (empty), and "Schema" (empty inputs and outputs). A "Settings" link is at the bottom left.

En la siguiente captura mostramos ahora los runs con el dataset simplificado.

The screenshot shows the MLflow UI at the URL 127.0.0.1:5000/#/experiments/1/runs?searchFilter=&orderByKey=attributes.start_time&orderByAsc=false&startTime=ALL&lifecycleFilter=Active&modelVersionFilter.... The interface is titled "mlflow 3.8.1". The top navigation bar includes "Runs", "Models", and "Traces". The main content area shows a table of runs for experiment "airbnb_RF". The columns are "Run Name", "Created", "Dataset", "Duration", "Source", and "Models". The table lists 10 matching runs, each with a unique color-coded icon. The last column, "Models", shows file paths like "c:\Users\...\regressor_simp_12". A "Show more columns (8 total)" link is visible on the right side of the table. The footer indicates "10 matching runs".

Finalmente, mostramos la comparación de las métricas para una profundidad de 9, en función de la dimensión del dataset, 43 y 9. Vemos que con 43 columnas el R2 es superior y el RMSE es menor, aunque la diferencia no es tan grande.

