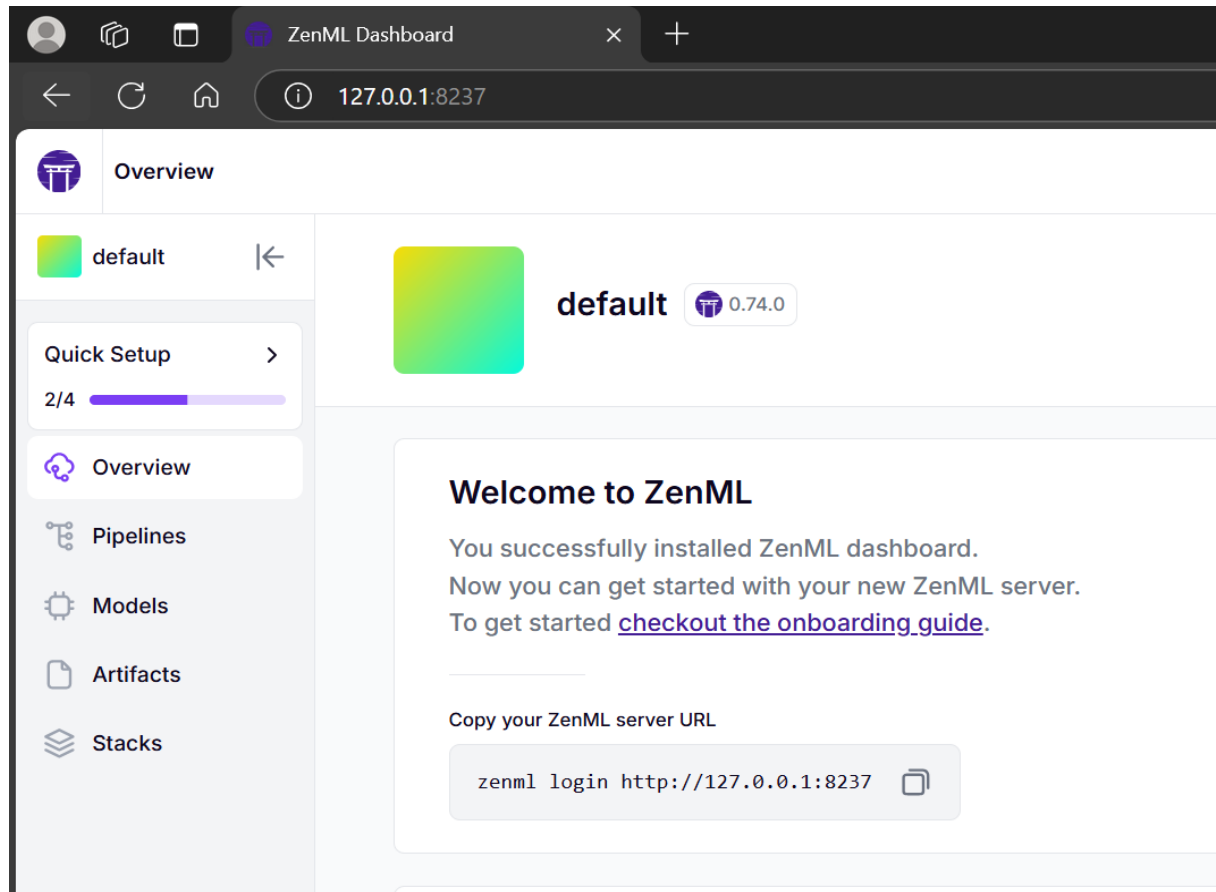




\*) Accessing the ZenML dashboard using the link <http://127.0.0.1:8237/>





\*) Seeing the list of pipelines

The screenshot shows the ZenML Dashboard interface. The browser address bar displays the URL `127.0.0.1:8237/pipelines?name=contains%3Amy&operator=or&p`. The dashboard header includes the ZenML logo and the text "Pipelines / Pipelines". On the left sidebar, the "Pipelines" menu item is selected. The main content area is titled "Pipelines" and features a search bar with the text "my". Below the search bar, a table lists the pipelines. The first entry is "my\_pipeline" with a green checkmark icon and the ID "6c18e9cf".

Pipeline	
<input type="checkbox"/>	 <b>my_pipeline</b>  6c18e9cf

The screenshot shows the ZenML Dashboard interface. The browser address bar displays the URL `127.0.0.1:8237/pipelines?name=contains%3Aex&operator=or&page=1&ta`. The dashboard header includes the ZenML logo and the text "Pipelines / Pipelines". On the left sidebar, the "Pipelines" menu item is selected. The main content area is titled "Pipelines" and features a search bar with the text "ex". Below the search bar, a table lists the pipelines. The first entry is "execute\_pipe" with a red warning icon and the ID "38941387".

Pipeline	
<input type="checkbox"/>	 <b>execute_pipe</b>  38941387

\*) Seeing the pipeline and the steps

The screenshot displays the ZenML Dashboard interface. The browser address bar shows the URL `127.0.0.1:8237/runs/93096a41-52a6-4510-958f-46a9fe48d3f2?tab=overview`. The dashboard breadcrumb navigation indicates the path: `Pipelines / execute_pipe / execute_pipe-2025...`. The main view shows a pipeline named `execute_pipe-2025_02_16-07_22_12_284455` with a green checkmark icon. The pipeline is visualized as a vertical flow: `ingest_data` (0min 0s) → `output DataFrame` → `train_model` (0min 22s) → `output DataFrame`. The `train_model` step is highlighted with a green checkmark. On the left, a sidebar contains navigation links: `Quick Setup` (2/4), `Overview`, `Pipelines` (selected), `Models`, `Artifacts`, `Stacks`, `What's New`, and `Settings`. On the right, the `Run Insights` panel is active, showing tabs for `Overview`, `Stack`, `Configuration`, and `Metadata`. The `Details` section lists the following information:

Field	Value
Id	93096a41-52a6-4510-958f-46a9fe48d3f2
Status	completed
Pipeline	execute_pipe
Repository/Commit	Not available
Code Path	Not available
Author	default
Start Time	16/02/2025, 11:22:12
End Time	16/02/2025, 11:22:35

\*) Seeing the stack, the pipeline is linked with

The screenshot displays the ZenML Dashboard interface. The browser address bar shows the URL `127.0.0.1:8237/runs/93096a41-52a6-4510-958f-46a9fe48d3f2?tab=stack`. The breadcrumb navigation indicates the path: `Pipelines / execute_pipe / execute_pipe-2025...`.

The main content area shows a pipeline run titled `execute_pipe-2025_02_16-07_22_12_284455` with a green checkmark icon. The pipeline diagram consists of the following steps:

- `ingest_data` (0min 0s) - A task node with a double arrow icon.
- `output` (DataFrame) - An output node with a database icon.
- `train_model` (0min 22s) - A task node with a green checkmark icon.
- `output` (DataFrame) - An output node with a database icon.

The right sidebar, titled "Run Insights", contains tabs for `Overview`, `Stack` (selected), `Configuration`, and `Metadata`. A message states: "Current run-specific stack settings. Click on a component for full default setti...". The stack configuration includes:

- `my_mlflow_stack2` (f08f2a53) with a `Stack` button.
- `default` (76ff3cb3) with an `Orchestrator` button.
- `mlflow_experiment_tracker` (98e49829) with an `Experiment Tracker` button.
- `default` (b03c0c5d) with an `Artifact Store` button.

The left sidebar contains navigation links: `Quick Setup` (2/4), `Overview`, `Pipelines` (selected), `Models`, `Artifacts`, `Stacks`, `What's New`, and `Settings`.

## \*) Integration of MLFlow and tracking experiment

The screenshot displays the ZenML Dashboard interface. The browser address bar shows the URL: `127.0.0.1:8237/runs/93096a41-52a6-4510-958f-46a9fe48d3f2?tab=metadata`. The dashboard breadcrumb navigation indicates the path: `Pipelines / execute_pipe / execute_pipe-2025... / Metadata`.

The main view shows a pipeline run titled `execute_pipe-2025_02_16-07_22_12_284455` with a green checkmark icon. The pipeline diagram consists of the following steps:

- `ingest_data` (Step icon: <<): Duration 0min 0s. Output: `output DataFrame`.
- `train_model` (Step icon: ✓): Duration 0min 22s. Output: `output DataFrame`.

The right sidebar, titled `Run Insights`, contains tabs for `Overview`, `Stack`, `Configuration`, and `Metadata`. The `Metadata` tab is active, showing a section for `Uncategorized` with the following key-value pairs:

- `train_model::experime...`: `file:C:\Users\MZ\AppData\Roaming\zenml\local_st`
- `train_model::mlflow_e...`: `250679720481467704`
- `train_model::mlflow_ru...`: `8a1efe7d02cc4456af4097eaa9b79fdc`

\*) Seeing the code of the STEPS

The screenshot displays the ZenML Dashboard interface. The browser address bar shows the URL `127.0.0.1:8237/runs/93096a41-52a6-4510-958f-46a9fe48d3f2?tab=stack`. The dashboard's left sidebar contains navigation links for Overview, Pipelines, Models, Artifacts, Stacks, What's New, and Settings. The main area shows a pipeline named `execute_pipe-2025_02-16` with a 'Quick Setup' progress bar at 2/4. The pipeline steps visible are `ingest_data` (cached), `train_r` (checked), and `output DataF`. A modal window is open for the `ingest_data` step, showing its code in the 'Code' tab. The code is as follows:

```
@step
def ingest_data(mname: str) -> pd.DataFrame:
    #df_pth = "https://raw.githubusercontent.com/nursnaaz/FutureDataScienceLegends/refs/heads
    df_pth = mname
    lcl_pth = "./IngestedData.csv"
    df = pd.read_csv(df_pth)
    df.to_csv(lcl_pth, index=False)

    return df
```