

Phase 1: Infrastructure & Data Ingestion

Object Browser

Start typing to filter objects in this bucket

bronze

Created on: **Tue, Dec 09 2025 17:32:18 (GMT+2)** Access: **PRIVATE** 972.3 KiB - 2 Objects

Rewind ⏪ Refresh ⏴ Upload ⬆

bronze / raw

Create new path :/

<input type="checkbox"/>	▲ Name	Last Modified	Size
<input type="checkbox"/>	Traffic.csv	Tue, Dec 09 2025 17:33 (GMT+2)	380.9 KiB
<input type="checkbox"/>	Weather.csv	Tue, Dec 09 2025 17:33 (GMT+2)	591.4 KiB

Object Browser

Start typing to filter objects in this bucket

silver

Created on: **Tue, Dec 09 2025 17:32:27 (GMT+2)** Access: **PRIVATE** 253.2 KiB - 2 Objects

Rewind ⏪ Refresh ⏴ Upload ⬆

<input type="checkbox"/>	Name	Last Modified	Size
<input type="checkbox"/>	traffic_cleaned.parquet	Today, 17:05	103.6 KiB
<input type="checkbox"/>	weather_cleaned.parquet	Today, 17:05	149.6 KiB

Traffic data:

Phase 3: HDFS Integration (Additional Storage Layer)

Hadoop Overview Datanodes Datanode Volume Failures Snapshot Startup Progress Utilities +

Browse Directory

/data/traffic

Show 25 entries Search:

<input type="checkbox"/>	Permission	Owner	Group	Size	Last Modified	Replication	Block Size	Name
<input type="checkbox"/>	-rw-r--r--	root	supergroup	103.61 KB	Dec 11 17:49	3	128 MB	traffic_cleaned.parquet

Showing 1 to 1 of 1 entries

Previous 1 Next

Hadoop, 2019.

Phase 4: Dataset Merging

The screenshot shows the Object Browser interface with a dark theme. At the top, there is a search bar with the placeholder "Start typing to filter objects in th" and two small icons: a gear and a sun. Below the search bar, the title "gold" is displayed, along with its creation date ("Tue, Dec 09 2025 17:32:37"), time zone ("(GMT+2)"), access level ("PRIVATE"), and size ("268.1 KiB - 1 Object"). To the right of this information are three buttons: "Rewind" with a circular arrow icon, "Refresh" with a circular arrow icon, and "Upload" with an upward arrow icon. Below this header, there is a breadcrumb navigation bar with back and forward arrows, the path name "gold", a refresh icon, and a "Create new path" button. The main content area is a table with the following columns: "Name", "Last Modified", and "Size". The table contains one row for a file named "merged_data.parquet", which was last modified "Today, 17:07" and has a size of "268.1 KiB".

Name	Last Modified	Size
merged_data.parquet	Today, 17:07	268.1 KiB

Phase 5: Monte Carlo Simulation (Traffic Risk Prediction)

phase 6 : factor analysis

 gold

Created on: Tue, Dec 09 2025 17:32:37 (GMT+2) Access: PRIVATE 756.0 KiB - 4 Objects

[Rewind](#) [Refresh](#) [Upload](#)

[Create new path](#)

<input type="checkbox"/>	Name	Last Modified	Size
<input type="checkbox"/>	 factor_analysis_loadings.parquet	Today, 14:26	3.5 KiB
<input type="checkbox"/>	 factor_analysis_scores.parquet	Today, 14:26	75.0 KiB
<input type="checkbox"/>	 Factor_analysis.pdf	Today, 14:25	409.5 KiB
<input type="checkbox"/>	 merged_data.parquet	Today, 15:23	132.7 KiB