

Phase 1: Infrastructure & Data Ingestion

Object Browser

Q Start typing to filter objects in tl

?

☀

🗑

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

Object Browser

Start typing to filter objects in tl

?

silver

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

Rewind

Refresh

Upload

<

silver

Create new path ://

	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

Go!

Show 25 entries

Search:

	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

Object Browser

Q

Start typing to filter objects in tl

?

☀

gold

Created on: Tue, Dec 09 2025 17:32:37 (GMT+2)

Access: PRIVATE

268.1 KiB - 1 Object

Rewind

↺

Refresh

↻

Upload

⬆

<

gold

Create new path

:/

☐

▲ 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 ↗

< gold

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