UML diagram



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get_config

Handles the retrieval of configuration from various sources including environment variables, database settings, or config files.

LoggerUtility

• log(message: str, level: LogLevel)

Responsible for handling logs. Can be configured to send logs to different outputs - file, cloud storage, monitoring tools, etc.

DataStoreUtility

- + store(data: DataFrame)
- + retrieve(query: QueryType)

Manages data storage and retrieval, abstracting the complexity of storage mechanisms like databases, cloud storage, or file systems.

FileHandler

- + validate_file_path(path: str)
- + load_data(path: str)
- + save_data(data: DataFrame, path: str)

A collection of methods that encapsulate the file operations, allowing the main class to read from and write to different file formats.

DataValidator

- + validate_data()
- + log_errors(condition: Condition, message: str)

Provides validation utilities to ensure data integrity and quality before processing.

DataProcessor

- data: DataFrame
- - logger: LoggerUtility
- + __init__(self, input_path: str)
- + transform()
- + save_processed_data(output_path: str)

The orchestrator that manages the process of data ingestion, transformation, validation, and storage.