**📘 Overview:**

Data preparation is a critical step in the data analysis process. It ensures the dataset is clean, structured, and optimized for meaningful visualizations. This step bridges the gap between raw data and insightful dashboards.

**🔍 Key Activities in Data Preparation:**

* ✅ **Cleaning:**  
  Remove irrelevant, duplicate, or missing values to ensure data quality and consistency.
* ✅ **Transformation:**  
  Convert raw data into formats suitable for analysis (e.g., changing date formats, splitting columns, creating calculated fields).
* ✅ **Exploration:**  
  Review the data to understand value distributions, identify trends, and detect anomalies.
* ✅ **Filtering:**  
  Focus on specific subsets (e.g., by region, danger status, or category) to support targeted analysis.
* ✅ **Validation:**  
  Ensure all fields are accurate, meaningful, and correctly typed (e.g., numeric, date, categorical).

**🧰 In This Project:**

* The dataset from **Kaggle (UNESCO 2019)** was already well-structured and clean.
* Only minimal checks were required to confirm data types and date formats (e.g., Date\_inscribed).
* No major null or duplicate values were found in critical fields like Name\_en, Country, and Region.

**🟢 Outcome:**

The dataset was deemed **ready for visualization** without extensive preprocessing, allowing for a smooth transition into Tableau for visual development.

**🎥 Explanation Video Links**

**⏱️ Duration:**

**1 Hour**

**🧠 Skill Tags:**

* Data Loading
* Data Cleaning
* Tableau Basics
* CSV Handling

**📹 Video 1: Data Loading**

* **Title:** *Loading UNESCO Dataset into Tableau*
* **Link:** [Watch Video](https://drive.google.com/file/d/1Y941JkukrTiOOAJS4WohiqTVDcMSP29v/view?usp=sharing)
* **Description:**  
  This video demonstrates how to connect Tableau to the whc-sites-2019.csv dataset from Kaggle, including steps for importing and previewing data before visualization.

**📹 Video 2: Data Cleaning**

* **Title:** *Cleaning and Preparing Data in Tableau*
* **Link:** [Watch Video](https://drive.google.com/file/d/16Cx2C1XpatahNAHbNNVQ-4l3NgKJxJBv/view?usp=sharing)
* **Description:**  
  This tutorial covers basic data cleaning tasks in Tableau, such as handling null values, renaming fields, and formatting columns to prepare the dataset for visualization.