**Smart Bridge Data Analytics Program on Tableau  
Data Flow Diagram Report  
Name: Yusuf Pipalrawanwala  
College: Avantika University**

**1. Introduction**

A Data Flow Diagram (DFD) represents how data moves through the system—from raw dataset ingestion to final visualization on Tableau. It ensures clarity on data sources, transformation processes, and interaction with end-users.

**2. Level 0 DFD (Context Diagram)**

**Entities:**

* **External Source**: UNESCO Dataset (CSV)
* **Process**: Data Cleaning & Transformation
* **Output**: Tableau Dashboard for Users

**Flow:**

1. Dataset uploaded from CSV
2. Cleaned in Excel/Python
3. Loaded into Tableau for visualization
4. Interactive dashboard accessed by end-user

**3. Level 1 DFD**

**Processes**:

1. **Data Collection** – Fetch UNESCO dataset from official/cleaned source.
2. **Data Cleaning** – Handle missing values, format data, filter irrelevant columns.
3. **Data Storage** – Store cleaned dataset in a secure, accessible format (Excel/Database).
4. **Visualization Preparation** – Define dimensions/measures for Tableau.
5. **Dashboard Deployment** – Publish on Tableau Public/Server.

**Data Stores**:

* CSV/Excel File - [https://avantikaeduin-my.sharepoint.com/:x:/g/personal/yusuf\_pipalrawanwala\_avantika\_edu\_in/EbYOwcy1\_8BGhv9n\_cYiWVsB0nQT5TGGEHnsux\_qFjVolQ?e=ArdTvO](https://avantikaeduin-my.sharepoint.com/:x:/g/personal/yusuf_pipalrawanwala_avantika_edu_in/EbYOwcy1_8BGhv9n_cYiWVsBw97MLV4phlH5V2O_hsVW0Q)
* Tableau Workbook (.twb/.twbx) - <https://drive.google.com/file/d/1aE1nLz3tP9vzgpnk-U5bBHqam6F3dkTK/view?usp=drive_link>
* **Tableau Public Desktop link –** [**https://public.tableau.com/views/YusufPipalrawanwalaFinalProject/WorldHeritageSites?:language=en-US&publish=yes&:sid=&:redirect=auth&:display\_count=n&:origin=viz\_share\_link**](https://public.tableau.com/views/YusufPipalrawanwalaFinalProject/WorldHeritageSites?:language=en-US&publish=yes&:sid=&:redirect=auth&:display_count=n&:origin=viz_share_link)

**External Entities**:

* UNESCO Website (for source data)
* End Users (analysts, educators, policy makers)