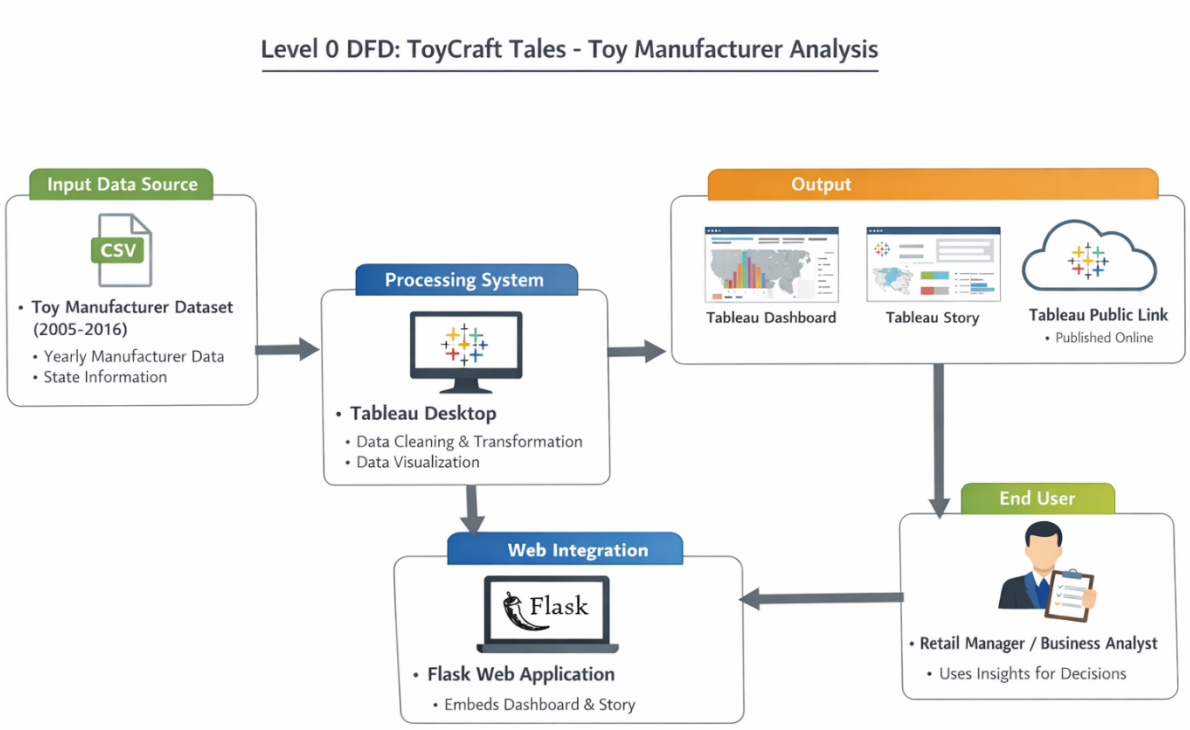
Data Flow Diagram (DFD)

Date	31 January 2026
Team ID	LTVIP2026TMIDS24931
Project Name	ToyCraft Tales: Tableau's Vision into Toy Manufacturer Data
Maximum Marks	4 Marks



The Level 0 Data Flow Diagram represents the overall flow of data in the *ToyCraft Tales: Tableau's Vision into Toy Manufacturer Data* system. It shows how data is collected, processed, visualized, and delivered to the end users for decision-making.

1. Input Data Source

The system takes input from the Kaggle dataset in CSV format, which contains historical data of US toy manufacturers from 2005 to 2016. The dataset includes information such as state-wise manufacturer details and year-wise records. This raw data acts as the primary source for analysis.

2. Processing System

The input data is processed using **Tableau Desktop**. In this stage, the data is cleaned, transformed, and prepared for analysis. Tableau is used to create different visualizations such as line charts, bar charts, maps, and pie charts to analyze trends and distributions in the toy manufacturing industry.

3. Output

After processing, the system generates the following outputs:

- **Tableau Dashboard**: An interactive view combining multiple visualizations.
- **Tableau Story**: A step-by-step narrative presentation of insights.
- **Tableau Public Link**: The published version of the dashboard and story, accessible online.

These outputs provide clear and interactive insights into year-wise trends and state-wise distribution of toy manufacturers.

4. Web Integration

The published Tableau Dashboard and Story are embedded into a **Flask Web Application**. This allows users to access the visualizations through a simple web interface. The Flask application acts as a bridge between the Tableau Public content and the end users.

5. End User

The end users, such as **Business Analysts, Industry Analysts, or Policy Makers**, interact with the web application to view the dashboard and story. They use these insights to understand industry trends, identify top-performing states, and support strategic planning and decision-making.