**Food Wastage Management system**

**1. Problem Statement:**

Food wastage is a significant issue, with many households and restaurants discarding surplus food while numerous people struggle with food insecurity. This project aims to develop a Local Food Wastage Management System, where:

* Restaurants and individuals can list surplus food.
* NGOs or individuals in need can claim the food.
* SQL stores available food details and locations.
* A Streamlit app enables interaction, filtering, CRUD operation and visualization.

**2. Business Use Cases:**

* **Connecting surplus food providers** to those in need through a structured platform.
* **Reducing food waste** by redistributing excess food efficiently.
* **Enhancing accessibility** via geolocation features to locate food easily.
* **Data analysis** on food wastage trends for better decision-making.

**3. Dataset Used :**

1. Providers Dataset : [providers\_data.csv](https://drive.google.com/file/d/1nYaJUVwb9WzDiWlW15rfiIDCELYImx__/view?usp=sharing)
2. Receivers Dataset: [receivers\_data.csv](https://drive.google.com/file/d/1hw330IEaPUl7N9Jcm3IsyFoX8Ti5PyS6/view?usp=sharing)
3. Food Listings Dataset: [food\_listings\_data.csv](https://drive.google.com/file/d/1hZ7w3YtNQqFRmfzV6sQ8QfCXVGnlei_m/view?usp=drive_link)
4. Claims Dataset: [claims\_data.csv](https://drive.google.com/file/d/1G-qlvSwaiVo-8cSxCbSoXBNYL2OYUN6x/view?usp=drive_link)

**4.Step-by-step Execution:**

* 1. Read the datas using pandas.
  2. Established SQL Connections using Sqlite3.
  3. Created an SQL database and stored the dataset in the table.
  4. Inserted Data using iterrows approach.
  5. Executed SQL queries to extract key insights.
  6. Developed A streamlit app for interactive data Querying.