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Project 4 – Group 1 – Global Food Waste

Our project will be focusing on food waste around the world from 2018 – 2024. We want to use the data to analyze how much food waste occurred between different countries as well as what countries were responsible for the most and the least amount of waste. We would like to see how Covid affected food waste since the pandemic began just a few years into when our data started being collected. Did countries start wasting less food because of the virus, or did that increase how much food was wasted around the world? We will also be using several other data sets to further analyze food waste and hunger trends during the years included in our dataset. Our interest in the dataset as a group stem from human waste in general. We are all interested in garbage and would like to furter understand how humans are wasteful on our planet.

Questions we will attempt to find the answers to:

1. What countries were the most and least responsible for food waste?
2. Did the Covid virus increase or decrease how much food was wasted globally?
3. How does population size or economic activity affect food waste?

Prediction:

We are predicting the total waste in tons to have a direct correlation with economic loss. Total waste will be our target column. We will be using the KNN Regressor because previous work supports its viability with the dataset. As input features we will include Population and Economic Loss.

Team member responsibilities:

- Daniel Sterling – Data Reporting and Primary Tableau

- Caleb Meinke – Website Developer

- Emily Wimmer – Secondary Tableau

- Kerry Oostdyk – Machine Learning

- Arya Meredia – Presentation Manager

Resources used:

Primary Kaggle Dataset (Global Food Waste):

https://www.kaggle.com/datasets/atharvasoundankar/global-food-wastage-dataset-2018-2024

Additional Dataset 1 (World Bank GDP Data):

https://data.worldbank.org/indicator/NY.GDP.MKTP.KD.ZG

Additional Dataset 2 (World Bank Undernourishment Data):

https://data.worldbank.org/indicator/SN.ITK.DEFC.ZS

Coolors Color Palette: https://coolors.co/142532-c13050-2e7046-764f4a-eac33b-8eba99