February 14, 2022

Emerson College Bootcamp, Data Analytics

**GitHub:** https://github.com/sthurstone/Project-IV---T-S-Team.git

**Group Name:** T&S Group

**Members**: Tanya Adams and Stephanie Thurstone - Retail Reapers

**Project IV:**

**Hypothesis:** In-person shopping has taken a back seat to Ecommerce sales in recent years which leads many to wonder, is Brick and Mortar a dying breed? Will all shopping eventually be Ecommerce or automated, self-serve stores? Tracking sales trends of one of the largest corporations in America, Walmart, will help us in determining our theory.

**Data Sources:**

* ~~Walmart API -~~ [~~https://developer.walmart.com/~~](https://developer.walmart.com/) ~~- only available to Sellers~~
* <https://www.kaggle.com/rutuspatel/walmart-dataset-retail>
* <https://www.kaggle.com/yamqwe/walmart-product-listing-data-2020e>
* <https://www.kaggle.com/namithadeshpande027/walmart-stock-historical-data>

**Procedures:**

1. Determine exact datasets to be utilized and merge and clean the data. Determine any unnecessary elements and drop them from the data set.
2. Explore and study the datasets
3. Use HTML to create dashboard to display work
4. Use machine learning to help determine if sales trends of Walmart indicate if brick and mortar stores are essentially dying.

**Anticipated Technological Library:**

* **Python Pandas**
* **Python MatPlotLib**
* **Scikit-Learn**
* **HTML**
* **Etc.**