**Group1 Final Project Proposal**

Background

The Supplemental Nutrition Assistance Program (formerly known as Food Stamps) provides monthly electronic benefits to participants that can be used at approved vendors. For NC, these benefits are approximately $2 billion dollars annually and is one of the state’s largest expenses.

Our group project is going to evaluate transactional data for potential vendor fraud. For example, unusual spending trends and distance traveled.

Analyzing / ML

Analyzing the distance people drive to go to a retailer to identify average distance travel. Then identify and rank outliers.

Analyze a participant average spend, store average spend, and overall average spend using a multiple linear regression model. Evaluate trends and see when a store breaks their pattern.

Visualizing

Visualizations, include but are not limited to, a:

* map of retailers with a heat map of distance that people are traveling;
* graph showing largest distance to smallest with average line; (and)
* graph showing unusual spending patterns.

Data

Mock retailer

Mock participants

Mock transactional

Libraries

Tableau

Python

GitHub

<https://github.com/JenT83/FinalProject.git>