Team name

An Apple a Day

Team members (full names)

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Overview of the project

We plan on looking at the relationship between income, food security and education performance. We want to know how income levels influence access to food and educational outcomes. We plan on applying regression and clustering algorithms to our data sets from 2015 to predict these outcomes. We are also interested in looking at how food security affects education. We can do this by using statistical methods to understand what percentage of the impact in education is driven by food scarcity.

Industry or focus area with a multitude of interesting challenges

Education and Food Security

Brief discussion on how data science can address these challenges

Finding relationships between income levels, food security and educational performance data

At least 2 data sets to be considered (can be public or private)

Food deserts in the US

(https://www.ers.usda.gov/data-products/food-access-research-atlas/documentation/) Education per county

(https://edopportunity.org/get-the-data/seda-archive-downloads/#testscore-3)

At least 3 problem areas to be covered and reason why (e.g., classification to perform ranking, regression to derive scores, etc.)

- Regression to predict relationship between say income and food security/education performance
- Clustering to see the connection between counties and food security
- Anomaly Detection to see if there are any counties that are exceptionally different