COURSERA DATA SCIENCE CAPSTONE
BATTLE OF THE NEIGHBORHOODS

WHERE IS THE BEST PLACE TO PARK A FOOD TRUCK IN FRANKLIN COUNTY, OHIO?

JORDAN PIERRE

Background

- I'm a student at the Ohio State University, located in Franklin County, Ohio.
- I'm interested in entrepreneurship and quantifying business opportunities.
- I thought it would be fun to explore the viability of starting a food truck business in Franklin County.

Problem Description

Question:

• Where is the best place to park a food truck in Franklin County, Ohio?

Background:

• People don't drive to food trucks so we need to find an area where hungry people congregate and can afford to spend money at our truck.

Assumptions:

• We have a permit to park anywhere we'd like.

Data

- 1. City, County, Zip Code, and Coordinate information of the entire US a from CSV from OpenDataSoft.com.
- 2. Categorical and Locational information for venues in Franklin County, Ohio, using the FourSquare API.
- 3. Population Size, Family Income, and other demographic information of Ohioans from the IRS website.

Methodology

- 1. Import geographical, demographic, financial, and venue data.
- 2. Format, sift, and relate the data.
- 3. Categorize venue categories based on their favorability for foot traffic
- 4. Calculate an overall food truck feasibility score according to the formula:

$$food truck score_i = \frac{weathy_i}{max\{wealthy\}} * \sum_{j=1}^{10} venue score_{i,j}$$

Results

	zip_code	Score
2	43017	16.845659
4	43054	12.876206
28	43221	11.668810
1	43016	11.000000
7	43085	10.574759

Results Ranked:

- 1. Dublin (43017),
- 2. New Albany (43054),
- 3. Upper Arlington (43221),
- 4. Dublin (43016),
- 5. Worthington (43085)

Conclusion

According to the formula, Dublin (43017) was found to be the best choice to park a food truck in Franklin County, Ohio.

This is because it:

- Has a wealthy population,
- Has many office complexes, and
- Has many sports venues,

All of which are great conditions for foot traffic for our food truck.