**Springboard Capstone Project Ideas**

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1. **An analysis of CitiBike sharing system**

Citi Bike is US's largest bike share program, with 10,000 bikes and 600 stations across Manhattan, Brooklyn, Queens and Jersey City. It was designed for quick trips with convenience in mind.

However, bikes tend to pile up in some bike stations and run out in other bike stations, because of commuting patterns. This cause people can’t take out bikes from empty stations, or finish their rides at full stations.

In this report, we would like to find out: a) the pattern of CitiBike users -When and Where do Citi Bikers ride? How far do they go?  b) Which stations are popular? Are there any insufficient Station? 3) Could we predict the number of free bikes at each station in the future by analyzing these data? 4) How much does the weather influence the CitiBike usage?

**CitiBike System Data:** <https://www.citibikenyc.com/system-data>

**NYC Weather Data:** <https://www.kaggle.com/mathijs/weather-data-in-new-york-city-2016>

1. **An analysis of Google health search**

Google Trends data allows us to see what people are searching for at a very local level. This visualization tracks the top searches for common health issues in the United States, from Cancer to Diabetes, and compares them with the actual location of occurrences for those same health conditions to understand how search data reflects life for millions of Americans.

In this report, we would like to find out: a) the pattern of google health searcher-Does search interest for top health issues change over time? Are people generally becoming more aware of health conditions and health risks? b) Does this search match the regional health trend by comparing to the data from the local health data points? c) Does the health search have any related to the level of wellness?

**Google Health Search Data:** <https://www.kaggle.com/GoogleNewsLab/health-searches-us-county>

**CDC 500 Cities Data:** <https://www.kaggle.com/cdc/500-cities>

1. **An analysis of Toy Products on Amazon**

There are 10,000 toy product sold on Amazon.

In this report, we would like to find out: a) What kind of toys are popular or attract certain kids ge group? b) Do customer reviews influence the sales of the toy? c) Any brand is more popular? Could we analyze general customer’s opinion about certain toy brand from all the customer reviews.

**Data:** <https://www.kaggle.com/PromptCloudHQ/toy-products-on-amazon>