Case Study-I McDonald's Menu

Context

Ray Kroc wanted to build a restaurant system that would be famous for providing food of consistently high quality and uniform methods of preparation. He wanted to serve burgers, buns, fries and beverages that tasted just the same in Alaska as they did in Alabama. To achieve this, he chose a unique path: persuading both franchisees and suppliers to buy into his vision, working not for McDonald's but for themselves, together with McDonald's. Many of McDonald's most famous menu items – like the Big Mac, Filet-O-Fish, and Egg McMuffin – were created by franchisees.

Content

This dataset provides a nutrition analysis of every menu item on the US McDonald's menu, including breakfast, beef burgers, chicken and fish sandwiches, fries, salads, soda, coffee and tea, milkshakes, and desserts.

Acknowledgements

The menu items and nutrition facts were scraped from the McDonald's website.

Inspiration

How many calories does the average McDonald's value meal contain? How much do beverages, like soda or coffee, contribute to the overall caloric intake? Does ordered grilled chicken instead of crispy increase a sandwich's nutritional value? What about ordering egg whites instead of whole eggs? What is the least number of items could you order from the menu to meet one day's nutritional requirements?

Data Set: menu.csv

Case Study-II India Trade Data

Context

India is one of the fastest developing nations of the world and trade between nations is the major component of any developing nation. This dataset includes the trade data for India for commodities in the HS2 basket.

For more, visit GitHub

Content

The dataset consists of trade values for export and import of commodities in million US$. The dataset is tidy and each row consists of a single observation.

Acknowledgements

The data is scraped using Selenium Webdriver from the Department of Commerce, Government of India.

Inspiration

A few questions that can be answered using this dataset are: 1. What did India export the most in any given year? 2. Which commodity forms a major chunk of trade? Does it conform to theories of international trade? 3. How has the trade between India and any given country grown over time?

A visualization of this dataset would be a great way to explore more such questions.

Data Set :IndiaTradeData.zip

Case Study – III Mount-Rainier-Weather-and-Climbing

Context

A year ago i had the opportunity to Climb this beautiful Mountain. Its a 15000 feet majestic beast looking just stands out from Seattle Washington. I was lucky enough to be part of a a great team to be able to successfully reach the summit. The weather was perfect the day we climbed. More often Weather plays a major role in deciding the summit success. Here is an attempt to use the historical weather data and the climbing records to analyse and predict the summit success given the weather details on a given day.

Content

The data contains Date, the various weather parameters averaged daily, the climbing statistics and the target the success percentage.

The weather has been captured from https://www.nwac.us and the climbing statistics from http://www.mountrainierclimbing.us/routes I could match the weather to the climbing records only for the period 2014 and 2015. I coudnt get the weather report for earlier than 2014.

Acknowledgements

We wouldn't be here without the help of others. If you owe any attributions or thanks, include them here along with any citations of past research.

Inspiration

The one single motive and objective of this dataset is to predict the rate of success of the climb given the route and the weather condition of a day.

DataSet: mount-rainier-weather-and-climbing-data.zip