Community Health Status Indicators (CHSI) to Combat Obesity, Heart Disease and Cancer

- Problem

How to keep people healthy? There is almost no definitive answer to this question, instead one could think of lowering the possibility of people being unhealthy! There is a wide range of factors with different level of severity which could contribute to health issues. While some factors such as heart disease, and cancer directly impact on community health, some are indirect, such as overweight and obesity, lack of physical activity, poor nutrition or environment quality; nonetheless any of these could play a prominent role in people's health depending on the characteristic of the population or demographics. The purpose of this project is to better understand the complexity of these influences and identify any causal relationships in order to combat major components of community health for every county in all the states. The dataset contains crucial information and key local health indicators and encourages dialogue about actions that can be taken to improve community health. Also nationwide analysis provides links between health risk factor and urban indicators such as finance, education, weather, etc. This analysis can serve as baselines for setting goals and targets for the future of community health.

- Client

The CHSI report and dataset was designed not only for public health professionals but also for members of the community who are interested in the health of their community.

- Data

https://healthdata.gov/dataset/community-health-status-indicators-chsi-combat-obesity-heart-disease-and-cancer/resource

- Approach

-Data cleaning
-EAD and inspection of the dataset to pinpoint relevant correlations between parameters
-Statistical analysis and developing a machine learning model to predict results

- Deliverables

-Jupyter notebook with codes, comments, analysis and machine learning model on GitHub
-Project report along with presentation