

## Project Ideas

### 1) Idea: Alcohol Usage by Residential Type:

Throughout the past 20 years the United States school boards have been incorporating alcohol education courses to raise awareness to high schoolers to stay free of alcohol. Based on data over the course of 20 years it has been proven that these courses do help educate high schoolers regarding the impact of alcohol. Using UCI's Machine Learning data for Student's Alcohol Usage I hope to see if the location the student's are from (Urban or Rural) make an impact on the number of drinks consumed. This data would be helpful to high schools around United States to help improve the curriculum and expand them to other places that might not provide these services.

<http://archive.ics.uci.edu/ml/datasets/STUDENT+ALCOHOL+CONSUMPTION>

### 2) Idea: Hospital Treatment over 10 years:

Over the past 10 years hospitals have improved the services they provide for patients and the number of tests performed on these patients have increased in fear of mistreatment. One important aspect that needs to be noted is the data that different races have higher or lower chances getting diabetes. Using a dataset from UCI, called "Diabetes 130-US hospitals for years" I hope to see if race and gender type might have an correlation with the number of medication. This data would show whether different race types have a higher chance of getting diabetes and the different means of reducing these cases. This set would be helpful to hospitals in gauging the difference in how hospital care has improved over the years.

<http://archive.ics.uci.edu/ml/datasets/Diabetes+130-US+hospitals+for+years+1999-2008>

### 3) Idea: Household's Electricity Usage by Day:

In this idea I hope to see the difference in a household's usage of electricity and see if there is any discrepancy to cause this. Using UCI's Machine Learning dataset for household's electric power set I hope to see a correlation in date and the amount of electricity consumed. Presumably, during the day there should be less energy uses and during the winter there should be more heater usage. This data set will help map different appliance uses and how different days and years impact the amount of electricity used from the appliance. This dataset will be helpful for residents and power suppliers to see when the most electricity is used and how different appliances cause the increase in usage.

<http://archive.ics.uci.edu/ml/datasets/Individual+household+electric+power+consumption>