**Project Proposal**

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According to the U.S. Department of Health and Human Services about 18 million of adult Americans suffer from alcohol addiction and heavy cigarette usage. The purpose of this project is to identify what population categories are affected by alcohol and cigarette usage among American adults. We are looking to analyze other categories as well, provided we have substantial sample size.

The multiple regression model in this project will use the data from *National Survey on Drug Use and Health* collected in 2012 by the U.S. Department Health and Human Services. This data was prepared for the Substance Abuse and Mental Health Services Administration, Rockville, Maryland, 20857

The data contains 3120 variables and 68309 records.

We are interested in predicting one of the following dependent variables:

1. Number of drinks per day in past 30 days (interval)
2. Total number of days used alcohol in past 12 months (interval)
3. Number of days drank alcohol in past 12 months (interval)
4. Cigarette usage in a specific duration (interval)

We are interested in using some of the following dependent variables to predict one of the following independent variables. Please note that the scope of variables is not restricted to only the below mentioned variables.We are still analysing the data set and look to find more interval variables which may be significant to the dependent variable

1. Age (interval)
2. Gender (male / female) (nominal)
3. Race (Hispanic or Latino / White / Black / Other) (ordinal)
4. Job status over the last 12 months (Yes / No) (nominal)
5. How many weeks without job in past 12 months (interval)
6. Total family income (interval)
7. Number of times married (interval)

**References**

* U.S. Department of Health and Human Services. (n.d.). *Alcoholism and Alcohol Abuse: MedLine Plus*. Retrieved from https://medlineplus.gov/alcoholismandalcoholabuse.html
* U.S. Department of Health and Human Services. (May 2, 2014). *National Survey on Drug Use and Health (NSDUH), 2012*. Retrieved from <https://www.healthdata.gov/dataset/national-survey-drug-use-and-health-nsduh-2012>