**Project Proposal: Crime against Women in India**

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In the recent years, crime against women in India particularly rape incidents have been reported extensively in the Indian media. These crimes are national phenomenon and are no longer rural India issues. On December 16 2012, a medical student in Delhi was brutally assaulted and gang-raped shading a spotlight on crimes against women in the country. For the first time, there was a furious outrage, emotional outburst as the general public, both men and women demanded safety and protection of women in the country. They were demanding changes to be made, a change in attitude towards women and a change in the demeaning gender laws that have not favored women for decades, plus they wanted a speedy justice to be executed on rapists so that they could be brought to book as soonest. However, many crimes of this nature occur every day in small towns and villages and do not get such attention. Crime is one of the main reasons that hinder women empowerment in India. Gender-based issues are getting worse. Women do not have equal status at home, at work or even in the society.

Male violence against women is a worldwide phenomenon. There are various forms of crime against women. Sometimes it is even before birth some times in the adulthood and other phrases of life. Violence against women both inside and outside of their home has been a crucial issue in the contemporary Indian society. Women in India constitute near about half of its population and most of them are grinding under the socio-cultural and religious structures.

The main objectives of this project are to find out:

* How total number of crimes against women in India have changed over the years at state level.
* What is the trend for each crime type
* How can we rank states/cities based on total crimes/crime type/crime density.
* Are crimes correlated with state population/literacy rates
* Which cities are safe and which are dangerous for women.

My primary source of data would be <http://ncrb.gov.in/> [National Crime Records Bureau]. The website contains the data and I will be using 2 different datasets for my analysis:

1. Dataset containing 11 different crimes for the past 12 years (2001-2012)
2. Dataset containing Incidence of Crimes committed Against Women during 2012: <http://ncrb.nic.in/CD-CII2012/cii-2012/Table%205.2.pdf>
3. Wikipedia Page containing State Population, Area and Literacy Rate

I would like to blend Python and R for obtaining/cleaning data.

I will also be visualizing the data by various data transformation techniques and produce graphs using ggplot2, rCharts and Shiny Apps (for interactive visuals) and googleVis for producing India maps based on crime numbers.