**PREDICTION OF INDIA’S GDP BASED ON VARIOUS MACROECONOMIC FACTORS**

**Problem Statement** According to World bank data India’s GDP depends on a number of factors**,** the major ones being the financial health,education,energy and Infrastructure, science and technology, health care,powerty,urban/social development and Trade to name a few. We in our project want to analyze the effect of all these factors and forecast the GDP for the year 2015 based on this data.

**Data to be taken from**: www.worldbank.org. Data available from 1960 - 2014

**Approach:** Our approach would be to analyze all this available data over a period of time (we have data all the way from 1966 to 2014) and forecast on the basis of the factors selected. The seasonality and trend in the data needs to be smoothened and an accurate forecast projection made on this data. While we need to capture the seasonality and trend in the data set the Trends and seasonality to be observed, significant factors to be identified and retained and noise is to be eliminated. We shall divide the data into training and validation; apply the different methods of smoothing: Simple Exponential/Holt’s method and winter’s method. Also we intend to utilize all the various methods like Ration to moving average, differencing and regression to remove sesonality, trend in the data etc.