**BIG DATA ANALYTICS – AIR QUALITY ANALYSIS SYNOPSIS**

**INTRODUCTION**

Air pollution occurs when harmful or excessive substances, including gases (such as carbon dioxide, ammonia, carbon monoxide, sulfur dioxide, nitrous oxides, methane, and chlorofluorocarbons), particulates (both organic and inorganic), and biological molecules are introduced into earth’s atmosphere.

Poor air quality can negatively affect human and environmental health. Air pollution causes damage to crops, animals, forests, and bodies of water. It has been shown that poor air quality can cause a variety of health problems in humans, including respiratory and cardiovascular problems.

The primary objective of this project is to collect data pertaining to the determinants of the analysis of the air pollution level of five different states in India during the years 2008-2012 and thereafter generate reports on the same based on the real-time data collected.

We have chosen this topic based on real-world scenarios. Implementation of this project in the current scenario will lead to awareness amongst people about the causes and effects of air pollution and also provide solutions that will reduce the same.

**DATA**

* The population of a city
* Birth and Death rate of the people living in that city
* Rate of CFC producing electronic appliances
* Count of vehicles owned per family and the count of vehicles sold by the industries in a particular month/year
* Count of industries in a city
* Effectiveness of public transportation
* Count of people admitted to hospital due to airborne diseases in a particular month/year

**PROBLEM STATEMENT**

Analysis of pollution level based on the data and generate -

* Suggestions to overcome the problem
* Possible airborne diseases
* Calculate the average life expectancy rate of the people living in that city