**PREDICTING LIFE EXPECTANCY USING MACHINE LEARNING**

* **Problem Description :**

A Typical Regression Machine Learning project leverages historical data to predict insights into the future. This problem statement is aimed at predicting Life Expectancy of an average person of a country on basis of given features.

Life expectancy is a statistical measure of the average time a human being is expected to live, Life expectancy depends on various factors: Regional variations, Economic Circumstances, Sex Differences, Mental Illnesses, Physical Illnesses, Education, Year of their birth and other demographic factors. This problem statement provides a way to predicting average life expectancy of people living in a country when various factors such as year, GDP, education, alcohol intake of people in the country, expenditure on healthcare system and some specific disease related deaths that happened in the country are given.

* **Project Summary :**

This problem statement is aimed at predicting Life Expectancy rate of a country given various features. It predicts the average lifetime of a human being and predicts on the basis of various factors like Regional variations, Economic Circumstances, Sex Differences, Mental Illnesses, Physical Illnesses, Education, Year of their birth and other demographic factors. So the end product will predict the future life expectancy of the person with the help of prior given appropriate matrix of features by the user like current year, GDP, education, alcohol intake of people in the country, expenditure on healthcare system and some specific disease related deaths that happened in the country are given.

* **Project Requirements :**
* **Functional Requirements :**
  + Life Expectancy Dataset From WHO
  + IBM Watson Services
  + Node Red flow to Integrate Auto AI
* **Technical Requirements :**
  + Processor : i5 8th Gen
  + Speed : 2Ghz or more
  + 4 GB RAM
* **Software Requirements :**
  + Python IDE
  + IBM cloud
  + Watson Services
  + Node Red App Services
  + Machine Learning
  + Excel Sheet
* **Project Team :** Individual project.
* **Dataset Reference :** <https://www.kaggle.com/kumarajarshi/life-expectancy-who>
* **Project deliverables** : The Model will Predict the Average Life Expectancy of a person based on the given features**.**