

PROJECT NAME: IISPS_INT_1600_Predicting Life Expectancy using Machine Learning

PROJECT MANAGER: Anjali Praveen Mishra

DATE: 06/06/2020

PROJECT SCOPE DOCUMENT

1. PROJECT SUMMARY:

A Typical Regression **Machine Learning** project leverages historical data to predict insights into the future. This problem statement is aimed at predicting at Life Expectancy rate of a country given various features.

Life Expectancy is a statistical measure of the average time an organism is expected to live. **Life expectancy** refers to the number of years a person is expected to live based on the statistical average. **Life expectancy** varies by geographical area and by era. Life expectancy depends upon 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 predict average life expectancy of people living in a country when various factors such as year, GDP, Education, alcohol intake of people, expenditure on healthcare system and some specific disease related deaths that happened in the country are given.

The scope of this project is to predict the guesstimate given by my current knowledge and the limited amount of time I have spent researching and thinking about this question, is that there is a 15% chance that life expectancy will decline in the future. If it does, then my best guess is that the mean value – of the range of possible life expectancies in 2050 is 70 years, which is close to the current value of female life expectancy in the world as a whole.

2. PROJECT REQUIREMENTS:

2.1 FUNCTIONAL REQUIREMENTS:

Predicting Life Expectancy rate of a country

2.2 TECHNICAL REQUIREMENTS:

Python, IBM Cloud, IBM Watson, Node-Red Flow Editor

3. PROJECT DELIVERABLES:

- Dataset for Life Expectancy Model
- Project Documentation
- Machine Learning Model for Predicting Life Expectancy using Python

- Node-Red Flow UI(Code) for getting Predictions
- Video Explaining the Whole project

4. PROJECT TEAM:

Project Manager: Anjali Praveen Mishra(Individual Intern)

5. PROJECT SCHEDULE:

