PROJECT NAME: Predicting Life Expectancy using Machine Learning

PROJECT MANAGER: Daithala Maneesh Date:22-05-2020

# PROJECT SCOPE DOCUMENT

## PROJECT SUMMARY:

A typical Regression Machine Learning project leverages historical data to predict insights into the future. This problem statement is aimed at predicting Life Expectancy rate of a country given various 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 predict average lif expectancy of people living in a country when various factors suchas year, GDP, education, alcohol intake of people in the country, expenditure on healthcare systemandsomespecificdiseaserelateddeathsthathappenedinthecountryaregiven.

## PROJECT REQUIREMENTS:

### FUNTIONALREQUIREMENTS:

Predicting life expectancy rate of a country.

1. **TECHNICAL REQUIREMENTS:** Python, IBM cloud, IBM Watson. **HARDWAREREQUIREMENTS:**

Processor: i3 &th gen or higher Speed: 2GHz or more

Hard disk space: 10 GB or more Ram memory: 4 GB ormore

### SOFTWAREREQUIREMENTS:

OS: Windows XP or higher

Browser: Google Chrome, etc.

## PROJECT DELIVERABLES:

* PROJECTDOCUMENTATION
* create ML predictionmodel
* node red flow diagram + Watson auto MLmode

## PROJECT TEAM:

Project Manager: Maneesh Daithala (individual)

## PROJECT SCHEDULE:

|  |  |
| --- | --- |
| **TASK** | **Date** |
| Project Planning and kick-off | 22nd May, 2020 |
| Explore IBM cloud platform | 23rd – 24th May, 2020 |
| Explore IBM Watson services | 27th – 28th May, 2020 |
| Introduction to Warson studio. | 29th May – 1st June, 2020 |
| Predicting Life expectancy with Python | - |
| Predicting life expectancy without python. | 10th – 18th June, 2020 |
| Submission of Project Codes | 18th June 2020 |

**Kick-off Meeting Agenda**

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| --- | --- |
| **TOPIC** | **Leader** |
| Introduce and welcome team members | D Maneesh |
| Discuss project background     1. What we havetoday      1. Why we need tochange      1. What are the key measures ofsuccess? | SmartBridge (Smart Internz) |
| Identify stakeholders     1. Who isimpacted?      1. Who are the key stakeholders - Sponsor and/or other decision makers who represent constituencies that will be impacted, and whose support is critical to the success of the project. | D Maneesh |
| Review project objectives     1. Objectives      1. Deliverables      1. Assumption | D Maneesh |
| Review team member roles & responsibilities     1. ProjectTeam-      1. Advisory groups (ifneeded)      1. Steering committee (ifneeded) | D Maneesh (individual work) smartinternz mentors  Mentor1    Mentor2 |
| Review other potential issues, risks, questions and concerns  What might get in the way of success? How could we address those concerns? | D Maneesh |
| Identify next steps and timing     1. Teamcommunications      1. Frequency of teammeetings | D Maneesh |