

Project Name : Predicting Life Expectancy using machine learning

Kick off date: 06-06-2020

Internship Title	Predicting Life Expectancy using Machine Learning - SB48483
Project ID	SPS_PRO_215
Project Title	Predicting Life Expectancy using Machine Learning

Project Scope

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 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 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.

2. Project Requirements:

The project requirements are:

1. IBM Cloud
2. IBM Watson Services
3. Node red
4. Python

3. Functional Requirement:

Predicting life expectancy rate of a country .

4. Technical Requirements:

Knowledge In the field of Python, IBM cloud, IBM watson

5. Software Requirements:

1. IBM Cloud
2. IBM Watson Services
3. Node red
4. Python platform

6. Algorithm:

1. Loading the packages which are required.
2. Reading the data.
3. Exploring the data and analyzing it.
4. Preprocessing the data.
5. Create a training and Test sets.
6. Create a model and train it

7. Project Deliverables:

A Trained Model which predicts the life expectancy of people living in a country with the given data.

8. Details:

Name : Ananda Bhavani Gedela

College : Vignan's institute of engineering for women.

Email: anandavaishnavi426@gmail.com

9.Project Schedule:

Starting from 06-06-2020 the project has to completed and submitted within one month.

The screenshot shows the GitHub 'Public profile' settings page for the user 'AnandaBhavani'. The browser tabs at the top include 'Student Dashboard', 'Stack | internship | smartbridge', and 'Your Profile'. The address bar shows 'github.com/settings/profile'. A notification banner at the top states: 'Your profile picture has been updated. It may take a few moments to update across the site.' The left sidebar contains a list of settings categories: Profile, Account, Security, Security log, Emails, Notifications, Billing, SSH and GPG keys, Blocked users, Repositories, Organizations, Saved replies, Applications, and Developer settings. The main content area is titled 'Public profile' and includes the following sections:

- Name:** A text input field containing 'Ananda Bhavani Gedela'. Below it, a note states: 'Your name may appear around GitHub where you contribute or are mentioned. You can remove it at any time.'
- Public email:** A dropdown menu showing 'Select a verified email to display'. Below it, a note states: 'You have set your email address to private. To toggle email privacy, go to [email settings](#) and uncheck "Keep my email address private."'
- Bio:** A text area with the placeholder 'Tell us a little bit about yourself'. Below it, a note states: 'You can @mention other users and organizations to link to them.'
- URL:** An empty text input field.
- Twitter username:** An empty text input field.
- Company:** An empty text input field. Below it, a note states: 'You can @mention your company's GitHub organization to link it.'

On the right side of the 'Public profile' section, there is a 'Profile picture' label above a square image of a woman. An 'Edit' button is located at the bottom right of the profile picture.

Student Dashboard x Slack | internship | smartbridgej x +

app.slack.com/client/T014WHZR866/C014FRKEQMV/user_profile/U01535KM0AG

Search smartbridgejuneml

smartbridgejuneml

Ananda Bhavani Gedela

Get started

First: Send a message

Threads

People

Apps

Files

Show less

Channels

general

internship

random

Add a channel

Direct messages

Slackbot

Ananda Bhavani Gedela (you)

Invite people

Apps

#internship

148 3 Add a topic

Thursday, June 11th

2 replies Last reply 4 days ago

Amey 6:48 PM

sir, if i have created github, slack, IBM cloud accounts, should i just move the task palette to review or do i need to upload screenshots or something? and also for the node-RED basic web application in the second milestone, do i need to upload its flow json file or something else? (edited)

2 replies Last reply 4 days ago

Aman Magdum 7:22 PM

task - Explore IBM watson usecases, what should I write in Zoho writer

Jyothi Niranjana Burla 9:10 PM

sir my institution is not a part of the IBM and i am unable to register for the academic initiative account

1 reply 3 days ago

Friday, June 12th

Mohini Das 10:19 AM

Sir I have completed course, deliverables and schedule and also exploring development environment

Send your first message to let your teammates know you're here.

Roll call! Who else is here? I'm here! What'd I miss?

Profile

Ananda Bhavani Gedela

Add a title

Set status Edit profile More

Display name

Ananda Bhavani Gedela

Local time

6:53 PM

Email address

anandavaishnavi426@gmail.com

Student Dashboard x Slack | internship | smartbridgej x Catalog - IBM Cloud x IBM Academic Initiative x Your IBM Cloud verification code: x +

cloud.ibm.com/catalog

IBM Cloud

Search resources and offerings...

Catalog Docs Support Manage Ananda Bhavan...

IBM Cloud products

Over 190+ products available for you to customize and build the solutions that you need for your business

Search the catalog...

Recommended for you

These recommended products are complementary to the resources that you're already working with.

Watson Studio

IBM • Services • AI

Embed AI and machine learning into your business. Create custom models using your own data.

Lite • Free • IAM-enabled

Watson Assistant

IBM • Services • AI

Watson Assistant lets you build conversational interfaces into any application, device, or channel.

Lite • Free • IAM-enabled

Cloud Foundry

IBM • Services • Compute

Create and deploy applications on a managed multi-tenant Cloud Foundry environment

Lite

Db2

IBM • Services • Databases

A next generation SQL database. Formerly dashDB For Transactions

Object Storage

IBM • Services • Storage

Provides flexible, cost-effective, and scalable cloud storage for unstructured data.

Text to Speech

IBM • Services • AI

Synthesizes natural-sounding speech from text.

FEEDBACK

Node-RED interface showing a simple flow. The left sidebar contains a search bar and a list of nodes under 'common' and 'function' categories. The main workspace displays a flow named 'Flow 1' with two nodes: 'Hello Node-RED!' and 'msg.payload'. The right sidebar shows the 'Info' panel with details about the selected flow.

Node-RED interface showing a simple flow. The left sidebar contains a search bar and a list of nodes under 'common' and 'function' categories. The main workspace displays a flow named 'Flow 1' with two nodes: 'Hello Node-RED!' and 'msg.payload'. The right sidebar shows the 'Info' panel with details about the selected flow.

Flow 1

Info

Information

Flow: *65a2c17b.28cd*

Name: Flow 1

Status: Enabled

Description

Pressing **enter** will edit the first node in the current selection

Node-RED interface showing a more complex flow. The left sidebar includes a search bar and a list of nodes under 'dashboard' and 'IBM Watson' categories. The main workspace displays a flow named 'Flow 1' with four nodes: 'timestamp', 'form', 'function', and 'msg.payload'. The right sidebar shows the 'dashboard' panel with options for Layout, Site, and Theme, and a list of tabs and links.

Node-RED interface showing a more complex flow. The left sidebar includes a search bar and a list of nodes under 'dashboard' and 'IBM Watson' categories. The main workspace displays a flow named 'Flow 1' with four nodes: 'timestamp', 'form', 'function', and 'msg.payload'. The right sidebar shows the 'dashboard' panel with options for Layout, Site, and Theme, and a list of tabs and links.

Flow 1

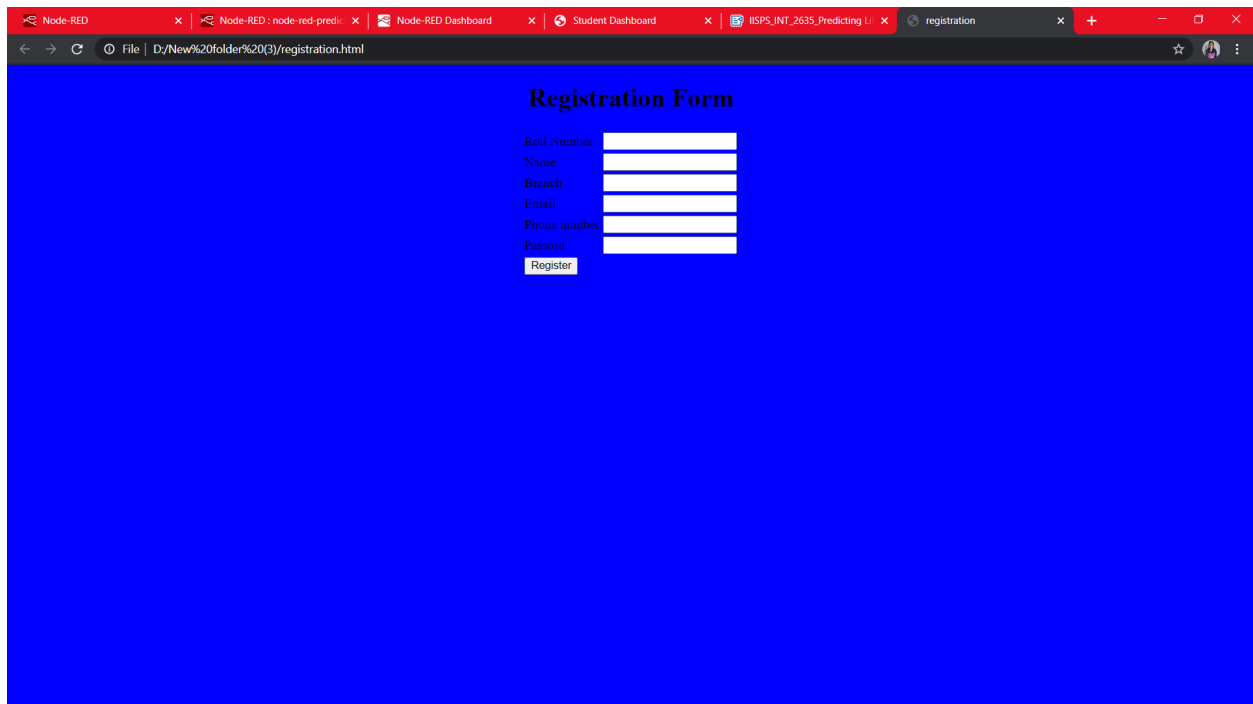
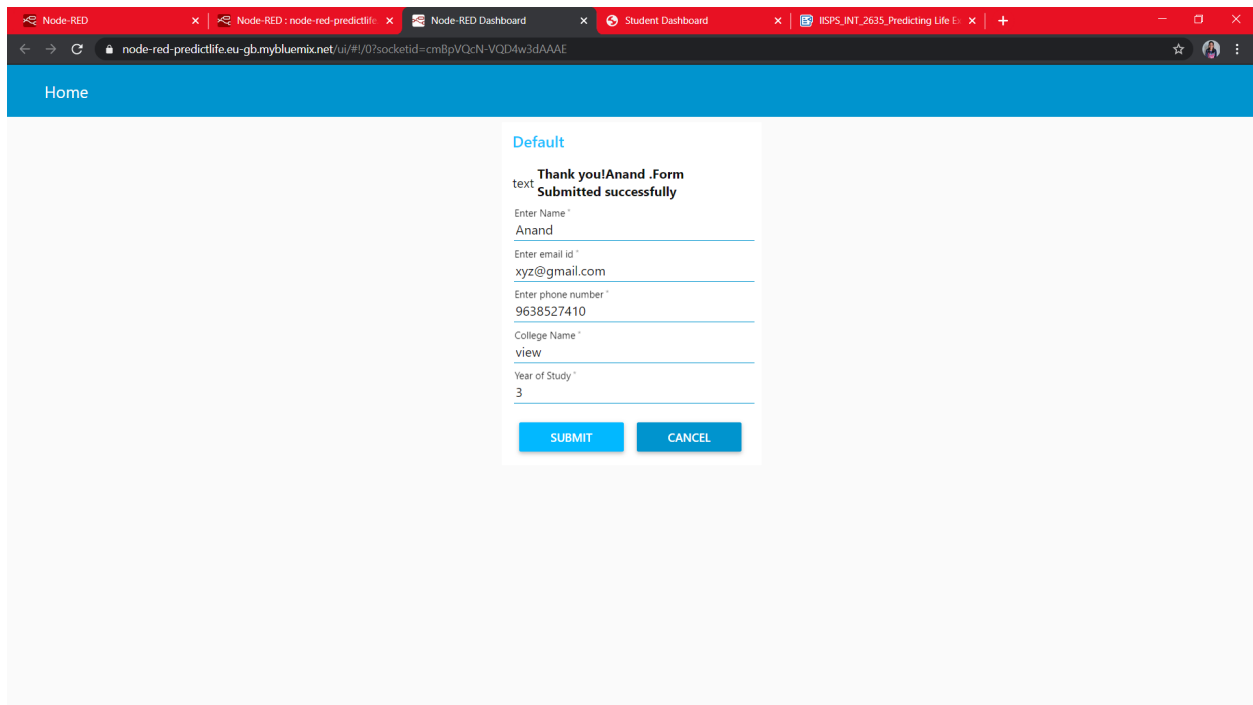
dashboard

Layout Site Theme

Tabs & Links

Home

Default



Student Dashboard

IISPS_INT_2635_Predicting Life E...

Service Details - IBM Cloud

IBM Watson Studio

+

eu-gb.dataplatform.cloud.ibm.com/projects/43abe3ca-be28-47a8-96cc-90a67e17e60f/assets?context=wdp

IBM Watson Studio

Upgrade

Ananda Bhavani Gedela's ...

AD

My projects / Predicting Life Expectancy

0 assets selected.

<input type="checkbox"/>	Name	Type	Created by	Last modified	↓
<input type="checkbox"/>	CSV Life Expectancy Data.csv	Data Asset	Ananda Bhavani Gedela	Jun 27, 2020, 10:04 PM	
<input type="checkbox"/>	CSV Life Expectancy Data.csv	Data Asset	Ananda Bhavani Gedela	Jun 27, 2020, 08:59 PM	

AutoAI experiments

New AutoAI experiment +

Name	Status	Model type	Last modified
You don't have any AutoAI experiments yet.			

Notebooks

New notebook +

Name	↑↓	Shared	Scheduled	Status	Language	Last editor	Last modified	
Predict analysis					Python 3.6	Ananda Bhavani Gedela	Jun 27, 2020	

Deep learning experiments

New deep learning experiment +

Name	Last Modified	↓
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Data

LoadFilesCatalog

Drop files here or [browse](#) for files to upload.

Student Dashboard

IISPS_INT_2635_Predicting Life E...

Node-RED: node-red-predictli...

Node-RED Dashboard

IBM Watson Studio

+

node-red-predictlife.eu-gb.mybluemix.net/#!/1/0?socketid=EYIS1FSzYlwymZEAAT

Home

Predicting Life Expectancy

Adult Mortality *
263

Infant deaths *
62

Alcohol *
0.01

percentage expenditure *
71.27962

Hepatitis B *
65

Measles *
1154

BMI *
19.1

under-five deaths *
83

Polio *
6

Total Expenditure *
8.16

Diphtheria *
65

HIV/AIDS *
0.1

GDP *
584.2592

Population *

Student Dashboard

IISPS_INT_2635_Predicting Life E

Node-RED : node-red-predictli

Node-RED Dashboard

IBM Watson Studio

node-red-predictlife.eu-gb.mybluemix.net/ui/#/07/socketid=EYt51FSZlwymZEAAAT

Home

Total expenditure
8.16

Diphtheria *
65

HIV/AIDS *
0.1

GDP *
584.2592

Population *
33736494

Thinness 1-19 years *
17.2

thinness 5 - 9 years *
17.3

Income composition of resources *
0.479

Schooling *
10.1

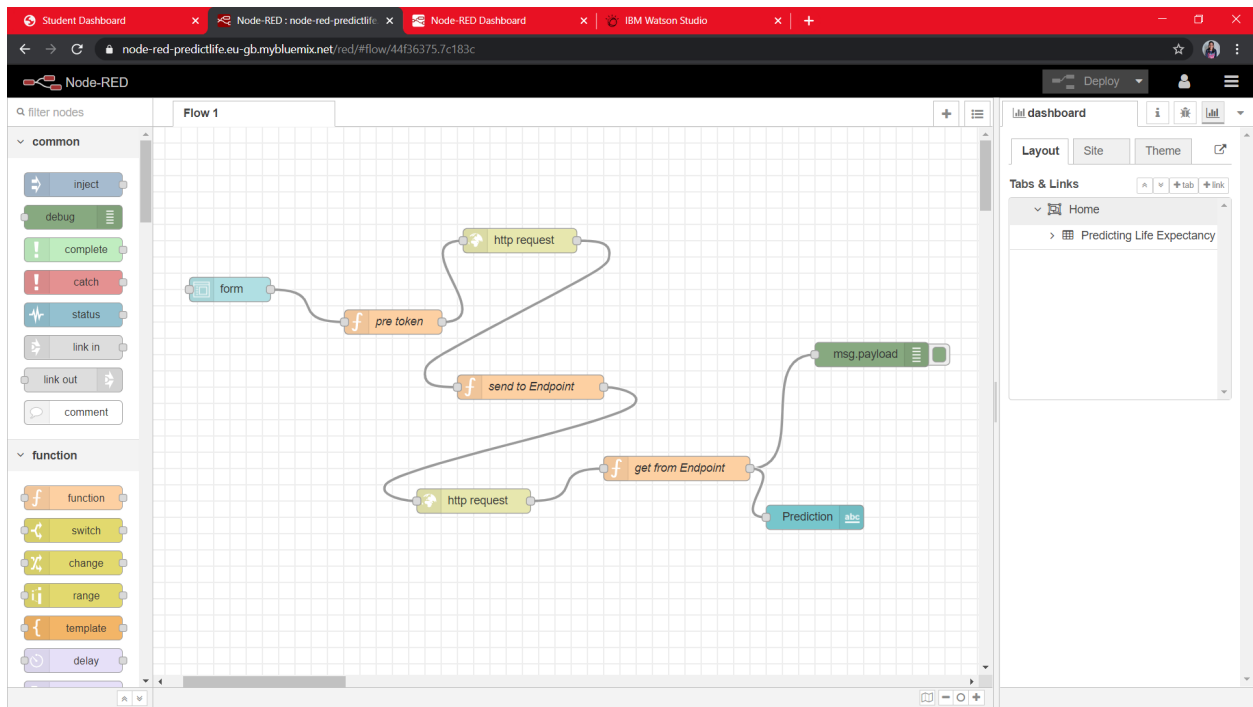
Developed *
0

Developing *
1

PREDICT

CANCEL

Prediction
63.568999999999996



INTERNSHIP PROJECT REPORT

ON

Predicting Life Expectancy Using Machine Learning

In Partial Fulfillment of

For the Award of the Degree of

IN

COMPUTER SCIENCE AND ENGINEERING

BY

ANANDA BHAVANI GEDELA

Under

SMARTINTERNZ

1 INTRODUCTION

1.1 Overview

1.2 Purpose

2 LITERATURE SURVEY

2.1 Existing problem

2.2 Proposed solution

3 THEORITICAL ANALYSIS

3.1 Block diagram

3.2 Software /Hardware designing

4 EXPERIMENTAL INVESTIGATIONS

5 FLOWCHART

6	RESULT
7	ADVANTAGES AND DISADVANTAGES
8	APPLICATIONS
9	CONCLUSION
10	FUTURESCOPE
11	REFERENCES

INTRODUCTION

The term “life expectancy” refers to the number of years a person can expect to live. By definition, life expectancy is based on an estimate of the average age that members of a particular population group will be when they die.

For example, colorectal cancer screening guidelines state that clinicians should only screen patients with an estimated life expectancy of at least 10 years because otherwise benefits of cancer detection are unlikely to outweigh the harms and costs. Referral to hospice care is often based on a life expectancy of less than 6 months. Implantable cardiac defibrillators are not indicated if the patient is not expected to live longer than one year.

1.1 Overview

In practical terms, estimating life expectancy entails predicting the probability of surviving successive years of life, based on observed age-specific mortality rates, 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 in the country, expenditure on healthcare system and some specific disease related deaths that happened in the country are given.

Good prognostication helps to determine the course of treatment and helps to anticipate the procurement of health care services and facilities, or more broadly: facilitates Advance Care Planning. So 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.

1.2 PURPOSE

Although there have been a lot of studies undertaken in the past on factors affecting life expectancy considering demographic variables, income composition and mortality rates. It was found that the effect of

immunization and human development index was not taken into account in the past. By predicting life expectancy and having good prognostication can help in making valuable decision like the course of treatment and helps to anticipate the procurement of health care services and facilities.

The average life Expectancy of a certain country says many things about that particular country. It ultimately helps in predicting the health conditions and the development of the health sector in that particular country. This ultimately helps the nation to find the area which needs attention in an urge to improve its contribution in average lifespan of a human being. The expectancy obviously depends upon the country's population, GDP, the economy of the country and many more factors. It is not enough to have a long life; instead with having a long life one should have a healthy and fit life as well.

2 LITERATURE SURVEY

2.1 EXISTING PROBLEM

Predicting Life Expectancy has been a long-term question to humankind. Many calculations and Research have been done to create an equation despite it being impractical to simplify these variables into one equation. Past studies have revealed a lot of work in the field of predicting life expectancy of a human being. After reviewing existing works and techniques in the prediction of human Life Expectancy, and finally reached a conclusion that it is possible to predict a Average Life Expectancy for individuals using advancing technologies and devices such as big data, AI, machine learning techniques, and PHDs, wearable's and mobile health monitoring devices, IOT. It is noticed that the collection of data is a huge challenge due to the privacy and government policy considerations, which will require collaboration of various bodies in the health industry. The interworking of a heterogeneous health network is also a challenge for data collection.

Despite these challenges, a possibility of predicting Life by proposing an approach of data collection and application by smart phone, in which users can enter their information to access the cloud server to obtain their own predicted Lifespan based on the given inputs. To verify the accuracy of PLE prediction and validation of data quality, big data techniques and analysis algorithms need to be developed and tested in a real-life situation with several sample groups. As artificial intelligence technology is evolving and being applied rapidly, feasibility may be increasing to collect health data from the public as well as existing health agencies such as centralized health servers.

2.2 PROPOSED SOLUTION

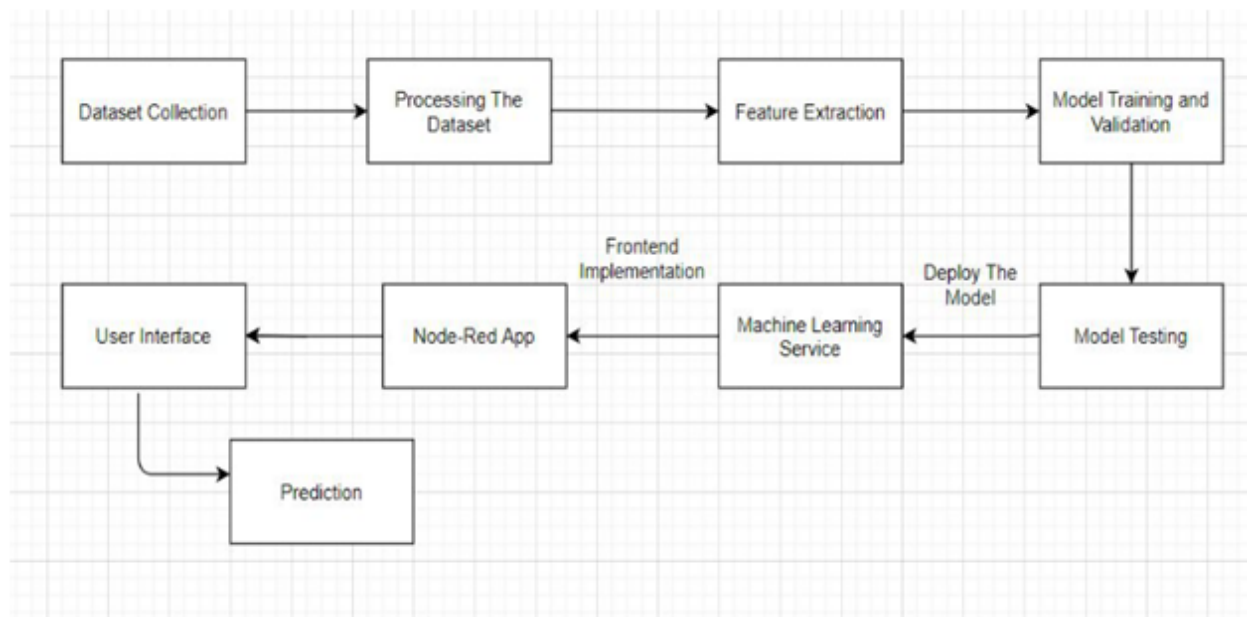
Although there have been a lot of studies undertaken in the past on factors affecting life expectancy considering demographic variables, income composition and mortality rates. It was found that the effect of immunization and human development index was not taken into account in the past. Also, some of the past research was done considering multiple linear regression based on a data set of one year for all the countries. Hence, this gives motivation to resolve both the factors stated previously by formulating a regression model based on mixed effects model and multiple linear regressions while considering data from a period of 2000 to 2015 for all the countries. Important immunization like Hepatitis B, Polio and Diphtheria will also be considered. In a nutshell, this study will focus on immunization factors, mortality factors, economic factors, social factors and other health related factors as well. Since the observations in this dataset are based on different countries, it will be easier for a country to determine the predicting factor which is contributing to lower value of life expectancy. The model of "Predicting Life Expectancy using Machine Learning" uses IBM Cloud services, which helps to avoid any storage issues. The UI Presented to the users is a website URL i.e. on user's fingertips.

The end result will be a web page where it will predict the life expectancy based upon various inputs provided by the user by the technique of regression algorithm. It depend on factors such as Status of the country, Adult Mortality Rate, Infant deaths, Alcohol, Hepatitis B, Measles, BMI, Polio, Total Expenditure, Diphtheria, HIV/AIDS, GDP of a country, Population, Income Composition of Resources, Schooling status of the country.

To access the trained model, we will use Node-Red App from IBM Cloud.

3. THEORITICAL ANALYSIS

3.1 BLOCK DIAGRAM



3.2 HARDWARE /SOFTWARE DESIGNING

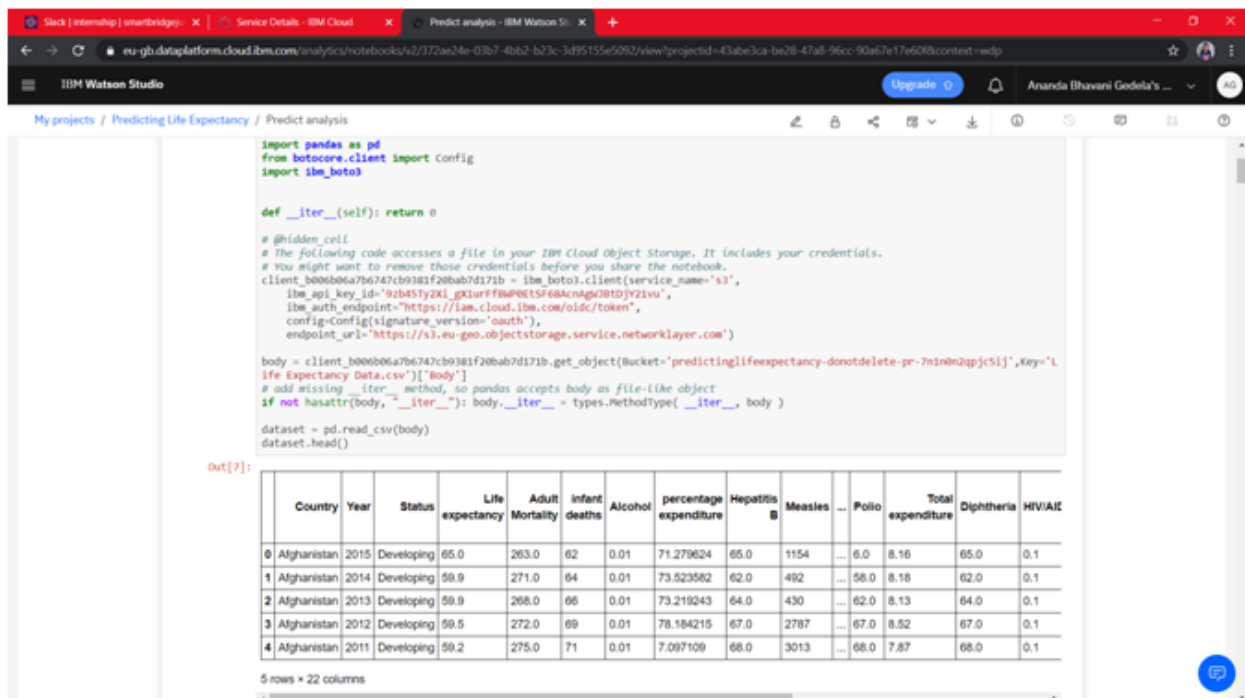
1. Collecting the Dataset

2. Creating Necessary IBM Cloud Service
3. Creating and Configuring Watson Studio
4. Create Machine Learning Service
5. Adding Jupyter Notebook
6. Build ML model and create Scoring Endpoint for Node-Red Integration
7. Build Node-Red Flow and integrate ML services and deploy.

Software Requirements: ► Python IDE ► IBM Cloud ► IBM Watson ► IBM Watson Studio ► Node-Red

4. THEORITICAL ANALYSIS

Analyzing each and every feature in our dataset is very important as it helps us to build a model which gives more accurate result.



The screenshot shows a Jupyter Notebook in IBM Watson Studio. The code imports pandas and boto3, then uses boto3 to download a CSV file from IBM Cloud Object Storage. The dataset is read into a pandas DataFrame, and the first 5 rows are displayed.

```
import pandas as pd
from botocore.client import Config
import boto3

def __iter__(self): return 0

# @hidden_cell
# The following code accesses a file in your IBM Cloud Object Storage. It includes your credentials.
# You might want to remove these credentials before you share the notebook.
client = boto3.client(service_name='s3',
    aws_access_key_id='9zb45Ty2Xl_gKturfF8W0Et5F6A8cNagJ8TDJy21vu',
    aws_secret_access_key='...',
    config=Config(signature_version='oauth'),
    endpoint_url='https://s3.eu-gb-objectstorage.service.networklayer.com')

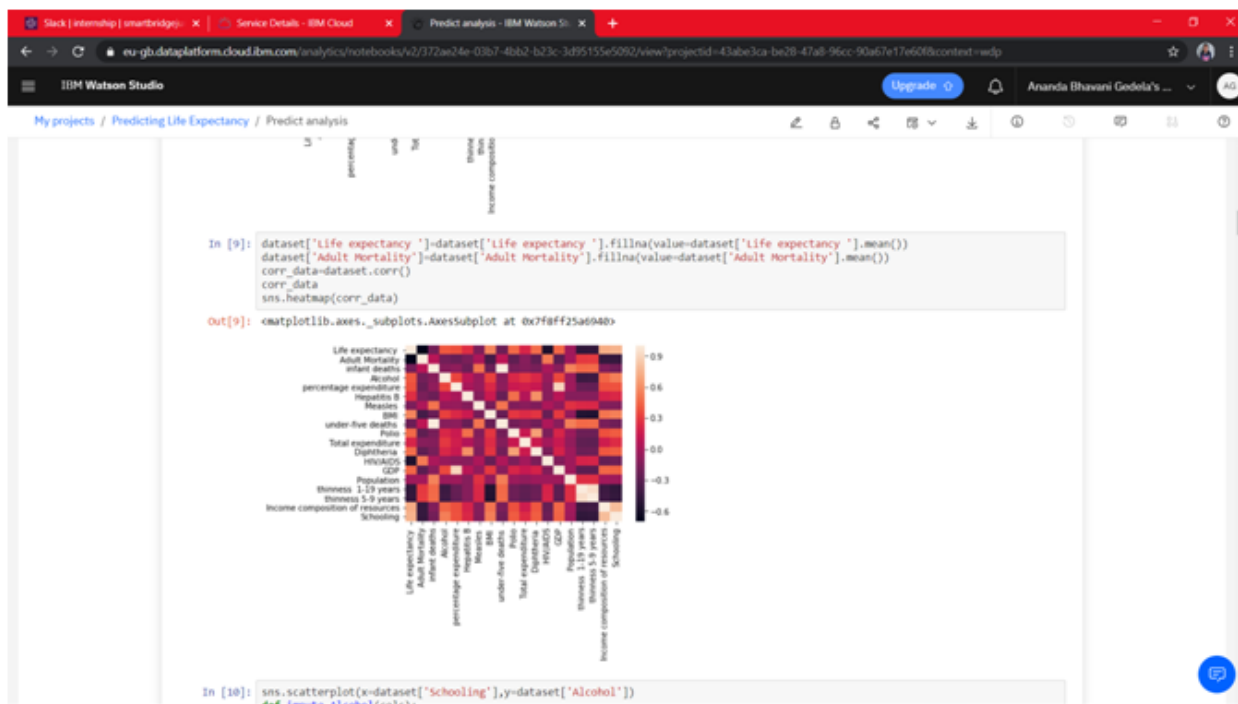
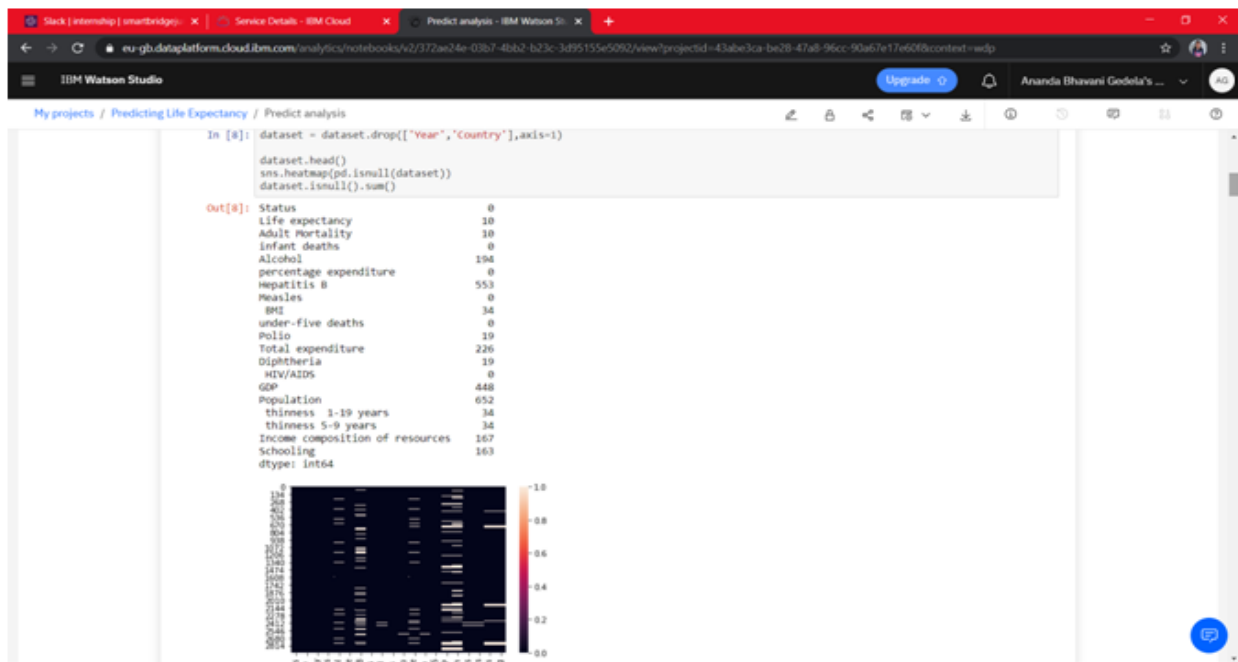
body = client.get_object(Bucket='predictinglifeexpectancy-donotdelete-pr-7min0n2apjc5ij', Key='life Expectancy Data.csv')['Body']
# add missing __iter__ method, so pandas accepts body as file-like object
if not hasattr(body, '__iter__'): body.__iter__ = types.MethodType(__iter__, body)

dataset = pd.read_csv(body)
dataset.head()
```

Out[7]:

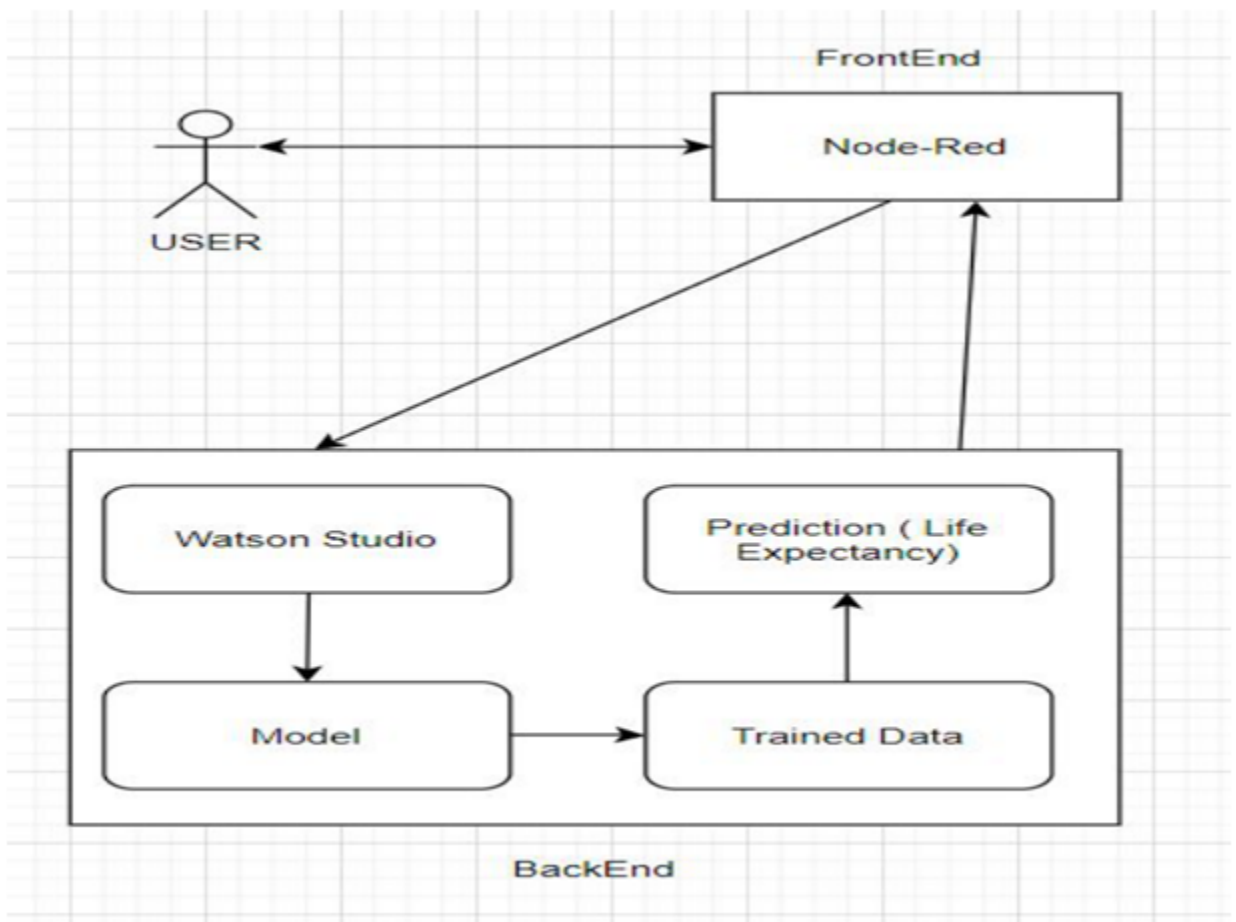
	Country	Year	Status	Life expectancy	Adult Mortality	Infant deaths	Alcohol	percentage expenditure	Hepatitis B	Measles	...	Polio	Total expenditure	Diphtheria	HIV/AIDS
0	Afghanistan	2015	Developing	65.0	263.0	62	0.01	71.279624	65.0	1154	...	6.0	8.16	65.0	0.1
1	Afghanistan	2014	Developing	59.9	271.0	64	0.01	73.523562	62.0	492	...	58.0	8.18	62.0	0.1
2	Afghanistan	2013	Developing	59.9	268.0	66	0.01	73.219243	64.0	430	...	62.0	8.13	64.0	0.1
3	Afghanistan	2012	Developing	59.5	272.0	69	0.01	78.184215	67.0	2787	...	67.0	8.52	67.0	0.1
4	Afghanistan	2011	Developing	59.2	275.0	71	0.01	7.097109	68.0	3013	...	68.0	7.87	68.0	0.1

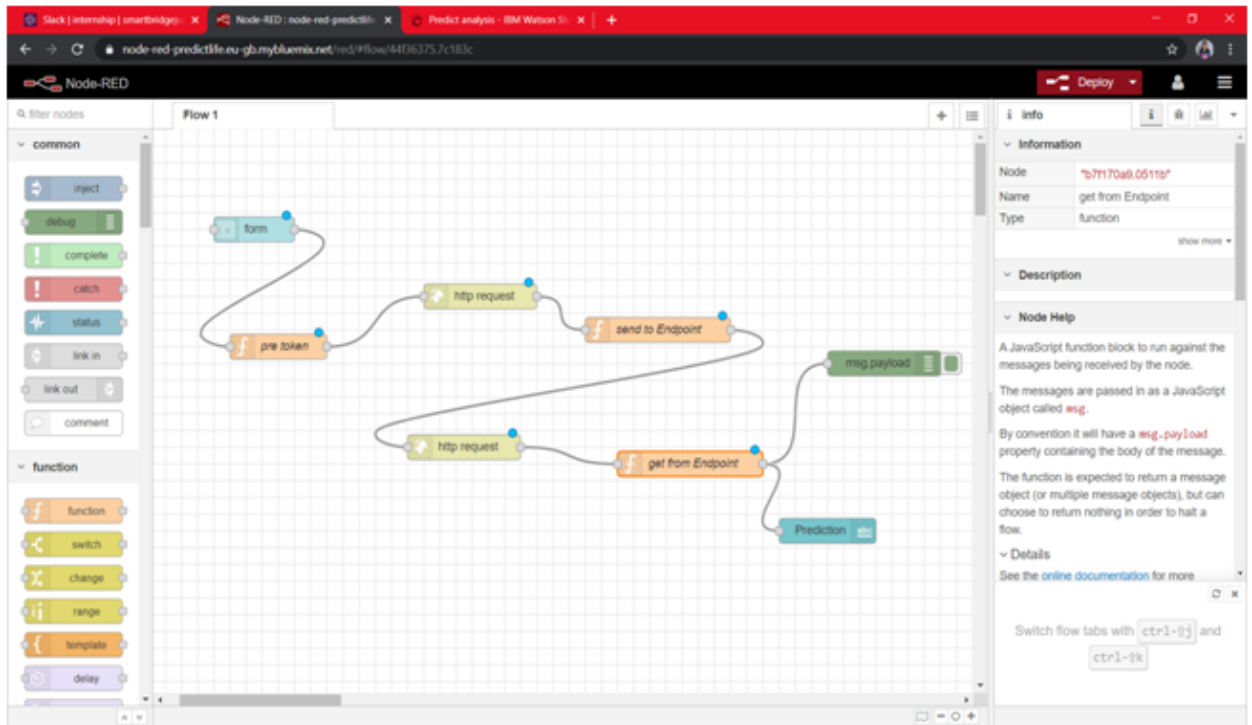
5 rows x 16 columns



5. FLOW CHART

A flowchart is a diagram that depicts a flow of process, system or computer algorithm. They are widely used in multiple fields to document, study, and plan, improve and communicate complex processes in clear, easy-to-understand diagrams. Flowcharts, sometimes spelled as flow charts, use rectangles, ovals, diamonds and potentially numerous other shapes to define the type of step, along with connecting arrows to define flow and sequence.





6. RESULT

The user friendly Graphical User interface is shown in Figure below. This GUI is connected to the trained machine learning model present in the backend (IBM Watson notebook). The user has to fill in the inputs accordingly and click on the “Predict” button present at the end of the form. On clicking the “Predict” button, the user will be displayed the predicted life expectancy at the predict label, based on the inputs provided as shown in Figure below.

Stack | internship | smartbridge | Node-RED: node-red-predictlife | Node-RED Dashboard | Predict analysis - IBM Watson |

node-red-predictlife.eu-gb.mybluemix.net/u/PjDhocketid=FdyVWpwcCycDMNAAAI

Home

Predicting Life Expectancy

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Population *

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node-red-predictlife.eu-gb.mybluemix.net/u/PjDhocketid=FdyVWpwcCycDMNAAAI

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thinness 5 - 9 years *
17.3

Income composition of resources *
0.479

Schooling *
10.1

Developed *
0

Developing *
1

PREDICT CANCEL

Prediction 63.568999999999996

7. ADVANTAGES & DISADVANTAGES

7.1. Advantages:

1. Advantages of using IBM Watson:

- Processes unstructured data
- Fills human limitations
- Acts as a decision support system, doesn't replace humans
- Improves performance + abilities by giving best available data
- Improve and transform customer service
- Handle enormous quantities of data
- Sustainable Competitive Advantage

2. Easy for users to interact with the model via the UI.

3. User-friendly.

4. Easy to build and deploy.

5. Doesn't require much storage space.

7.2. Disadvantages:

Disadvantages of using IBM Watson:

- Computation cost and training the model will increase the cost if dataset is

too large in size

- Node-Red doesn't give much flexibility to design own templates, although it's a great service.
- Required Internet connection
- Increasing rate of data, with limited resources
- Wrong prediction if the user provides wrong information as it is user dependent.

8. APPLICATIONS

- To analyze all the factors and plan out measures to increase the life expectancy of the country
- To help government prepare life insurance policies for people. This will benefit the people.
- To analyze country's growth statistics in future years.
- It can be used to monitor health inequalities of a country.
- This will help in suggesting a country which area should be given importance in order to efficiently improve the life expectancy of its population.

9. CONCLUSION

Thus, we have developed a model that will predict the life expectancy of a specific demographic region based on the inputs provided. Various factors have a significant impact on the life span such as Adult Mortality, Population, Under 5 Deaths, Thinness 1-5 Years, alcohol, HIV, Hepatitis B, GDP, Percentage Expenditure and many more. Users can interact with the system via a simple Graphical user interface which is in the form of a form with input spaces which the user needs to fill the inputs into and then press the "predict" button.

Predicting Life Expectancy can lead to the development of the country. It can widely impact Health Sectors, Public Sectors and Economic Sectors by improving the resources, funds and services provided to people.

10. FUTURE SCOPE

As future scope, we can connect the model to the database which can predict the life Expectancy of not only human beings but also of the plants and different animals present on the earth. This will help us analyze the trends in the life span. A model with country wise bifurcation can be made, which will help to segregate the data demographically.

Other factors such as sentiment analysis and mental health can be added to predict life expectancy. Happiness index is also one such feature which can be proved vital determining life expectancy.

11. Bibliography:

1. Project planning and kick off :

- a. <https://www.allbusinesstemplates.com/download/?filecode=2KBA4&lang=en&iuid=9f9faa69-9fab-40ee-8457- ea0e5df8c8de>
- b. <https://www.youtube.com/watch?v=LOCKVmENq8&feature=youtu.be>
- c. <https://github.com/>
- d. <https://slack.com/intl/en-in/>
- e. <https://www.zoho.com/writer/help/working-withtext.html>

2. IBM Cloud :

- a. <https://cloud.ibm.com/login>

b. <https://developer.ibm.com/tutorials/how-to-create-anode-red-starter-application/>

c. https://www.w3schools.com/howto/howto_make_a_website.asp

3. IBM Watson services :

a. <https://www.ibm.com/watson/products-services>

b. <https://developer.ibm.com/technologies/machinelearning/series/learning-path-machine-learning-for-developers/>

c. <https://www.youtube.com/watch?v=NmdjtezQMSM>

d. <https://bookdown.org/caoying4work/watsonstudioworkshop/jn.html>

e. <https://developer.ibm.com/tutorials/watson-studio-auto-ai/>

f. <https://bookdown.org/caoying4work/watsonstudioworkshop/jn.html#deploy-model-as-web-service>

4. Dataset:

a. <https://www.kaggle.com/kumarajarshi/life-expectancy-who>

12. Appendix:

GUI url link: <https://node-red-predictlife.eu-gb.mybluemix.net/ui/>

Source code :

[https://github.com/SmartPracticeschool/IISPS-INT-2635-Predicting-Life-Expectancy-using-Machine-Learning/blob/master/Predict%20analysis%20\(1\).ipynb](https://github.com/SmartPracticeschool/IISPS-INT-2635-Predicting-Life-Expectancy-using-Machine-Learning/blob/master/Predict%20analysis%20(1).ipynb)

Student x IISPSJN x (181) h x Slack x Service x Predict x Your Re x SmartP x SmartP x Anand x SmartP x SmartP x

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