PREDICTING LIFE EXPEXTANCY USING MACHINE LEARNING ALGORITHM

PROJECT SUMMARY

The project tries to create a model based on data provided by the
World Health Organization(WHO) to evaluate the life expectancy for different countries in years.
In this project we have to build a model which is used for prediicting the life expectancy of people using machine learning algorithm. The prediction is based on the previous data of people. In this project we have to build a model which predicts the life expectancy of people using some machine learning algorithm. The algorithm is selected by observing and analyzing the given data and records of people.
The observation is made based on the data of previous years which we have to train for pedicting the result.
Life expectancy of people is depend on various factors like sex,age, Economic Crises, and other physical factors of environment. The prediction is made based on this given factors.

PROJECT REQUIREMENTS

The main aim of this project is to predict life expectancy of people according to the various given factors. The main requirements are the knowledge of machine learning algorithm for building the model. The experience of analyzing the data of people wich was affected by various factors or various conditions.
There are various regression algorithm which we have used for predicting the life expectancy of people.
Linear Regression
Multi-linear Regression
KNN Algorithm

PROJECT SCOPE

The project has various scope in various fields such as examining the life expectancy of people in a particular country. It also helps in analyzing the economic condition of a country. According to the life expectancy of people how much time a person can work in a field and contribute to the national economic income of a country.

This project model 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.

SOFTWARE REQUIRENMENTS

IBM cloud
Github
Watson studio
Node-Red

PROJECT TEAM

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PROJECT SHEDULE

30 days
Two meetings per week with mentor.

SET UP THE DEVLOPMENT ENVIRONMENT

IBM cloud computing service is a set of cloud computing services for business offered by the information technology company.
IBM Watson studio helps data sceintist and analysts prepare data and build models at scale across any cloud. With its open, flexible multicloud architecture, Watson Studio provides capabilities that empower business to simplify enterprises data science and AI such as : Automate AI lifecycle management with AutoAI.
We have to do the coding of our project in Watson Studio.
And the GUI of the project is made on Node-Red labs.
The documentation of the project is done on zoho writer which is provided in our work space in our internship dashboard.

For communicating with team and our mentors different platforms are provided by the intership managers.
Gitbhub is used for uploading the files of our project and manging the versions of our project.

The slack channel is also used for communicating with metnors and to solve our queries regarding the project.
The regular updation and progress of our project is done using tha task and progress of our module.
The dataset for building the model is also provided in the intership dashboard of our project.
Various link for understanding and learning the various description of project is also provided.
For creating accounts in various platform such as Github and IBM services the link is also provided in the internship dashboard.