

# Predicting Life Expectancy using ML

## Project Descriptions:

Category: **Machine Learning**

Aim: **Predicting the Life Expectancy of humans in the coming future by taking some dependent features into consideration**

- In this project we will create a Machine Learning model by using the Historical data (data which is collected by origination in past years) to predict the future
- As the output is numerical value (Life expectancy in years ) the Machine Learning Model must be a regression
- Famous Regression Models are
  - Linear Regression
  - Polynomial Regression
  - Decision Tree Regression
  - Random Forest Regression

## Project Requirements :

The scope of this project is to predict the Life Expectancy of Humans in future we can't predict the future easy by taking simple assumption , Because as the Technology increasing for most of the decades we have treatment ,At the same Time passes environment is polluting day by day because of our Technology ,By This we cant easily predict Life Expectancy in future, for that we need a model which can do our work in more efficient way by analysing collected data in past

- To do this we need Data
- Data Analysing Tools

## 🎨 Technical Requirements :

1. Gathering Data from Different Resources and storing them in single file in organized manner (json,csv )
2. We can use some Languages which are used for only Data Analysis(R) ,but To deploy it is hard ,Python has huge range of package in different Domains , it is for us to deploy our project(Data Sciencet ,AI,ML,NLP,. )
3. Required a Computer with basic feature with python and preinstalled packages as follow

- 👉 Numpy
- 👉 pandas
- 👉 jupyter
- 👉 matplotlib
- 👉 seaborn
- 👉 sklearn
- 👉 scipy

These are the basic packages required for creation of ML - Model using python

- 4.To Deploy our model we need Cloud Support