

# PROJECT SCOPE

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**PROJECT TITLE:** Predicting life expectancy using machine learning

**CREATED BY:** Hemlata Ahire

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## PROJECT SCOPE DESCRIPTION

Predicting life expectancy is determined as the number of years someone can live in specific country. Life expectancy varies from country to country.

To predict life expectancy in any country, different factors are considered. Factors like:

- Health
- Private sector
- Public sector
- Economy, policy and debts.
- Infrastructure
- Social protection
- Poverty
- Adult Mortality etc.

Life expectancy is measured in terms of years. Here result produced by the system will be an integer value. Hence to predict using machine learning regression is used.

Following are the variation made in the regression technique to achieve maximum accuracy.

- Linear regression on all predictors.
- Multivalued regression with few predictors.
- Regression with single predictor.

## PROJECT REQUIRMENTS

### Functional Requirement

- **INPUT:** To predict life expectancy user have to provide different values like year , Country, Adult Mortality, Total expenditure, Resources etc.
- **PROCESSING:** Model is build and trained using dataset. Dataset is taken from kaggldata [Life Expectancy Data.csv](#) .best regression method module is created using AutoAI experiment to predict life expectancy.
- **OUTPUT:** Prediction in terms of number of years will be outputted with optimum accuracy.

### Technical Requirement

- Country must be included in training dataset.
- Module must predict life expectancy with optimum accuracy.
- Model must be built with all possible input to perform predictions accurately.

### PROJECT DELIVARABLE

It will be the AI, ML application which will give your life expectancy in any country based on provided input data. Result will be accurate as optimum as possible.