Project - Linear Model Analysis
Group ALL
LMAC/MMA/MECD, 1st Semester, 2020/2021

Handed out on November 18, 2020.
To be handed back by December 16, 2020.

The Global Health Observatory (GHO) data repository under World Health Organization (WHO) keeps track of the health status as well as many other related factors for all countries. In this project we have considered data from year 2000-2015 for 193 countries for further analysis. The dataset consists of 22 columns and 2938 rows which meant 20 predicting variables. All predicting variables was then divided into several broad categories: Immunization related factors, Mortality factors, Economical factors and Social factors.

Considering multiple linear regression based on this data set answer the questions:

- What are the predicting variables actually affecting the life expectancy?

- Should a country having a lower life expectancy value(<65) increase its healthcare expenditure in order to improve its average lifespan?

- How does Infant and Adult mortality rates affect life expectancy?

- Does Life Expectancy has positive or negative correlation with eating habits, lifestyle, exercise, smoking, drinking alcohol etc.

- Others...

You can grab the dataset: here

About the report:

- The report should not exceed 30 pages.

- Do not forget topics such as objectives; estimation methods; decisions; conclusions of the study; and references.

- The R code (or other code), data and/or transformed data, as well as the report, must be send by email to:
  `conceicao.amado@tecnico.ulisboa.pt`