

Problem Statement

We are faced with health challenges today in Africa. Be it communicable and non communicable diseases, gbv, poor access to health care to mention but a few. we are however, imparting health care innovations and research to help avert this by building supportive eco systems and even utilizing ai .

Objectives

To determine if age leads to the diabetes scourge hence avoid its contraction

To know if diabetes and insulin lead to diabetes and its recurrence

Calculate mean values and fill in empty values with mean values

Scalar-shows the relationship between each column to the other relationships

Good values have to replace empty values

0 means not affected with the disease and 1 means affected with no clear

No clear pattern where is glucose is low hence no impact yet age is not an influencing factor

Data has to be understood with zeros removed and then they be emptied

No correlation hence no value is dropped

Medical data requires limited human intervention so there is no need to replace outliers. This affects the end result

Seaborn as an ml library is used to know why some variables are affected and others are not

The third to first quartile is utilized for the boxes, this is the interquartile range with a lower and upper limit affected. we need to obtain insights

The closer the variable is to positive one or negative one, the better or higher the correlation

Scaling is varying of the age, months, salary that is 1 to negative one which is standard scaling

Sensitivity and specificity is where the model predicts the accuracy in terms of whether one has disease or not

Preprocessing

Splitting of the data is where it is persuasive if the person has disease or not

Glucose and insulin affect diabetes positively

Outcome is a dependant variable and the target is an interdependent variable

With k fold validation, there is no need to split the data

Y is dependant and x is independent. variable keeps rotating ,until all is tested and split

With testing, u show one the apple and u tell them to learn it, with testing u show it to them and they tell them what it is