DIABETES PREDICTION

Using Machine Learning

INPUT DATAFIELD

About this file
Pregnancies:Number of times pregnant
Glucose:Plasma glucose concentration a 2 hours in an oral glucose tolerance test
BloodPressure:Diastolic blood pressure (mm Hg)
SkinThickness:Triceps skin fold thickness (mm)
Insulin:2-Hour serum insulin (mu U/ml)
BMI:Body mass index (weight in kg/(height in m)^2)
Diabetes Pedigree: Diabetes pedigree function
Age (years)

LOGISTIC REGRESSION

Logistic regression is a process of modeling the probability of a discrete outcome given an input variable. The most common logistic regression models a binary outcome; something that can take two values such as true/false, yes/no, and so on. Multinomial logistic regression can model scenarios where there are more than two possible discrete outcomes. Logistic regression is a useful analysis method for classification problems, where you are trying to determine if a new sample fits best into a category. As aspects of cyber security are classification problems, such as attack detection, logistic regression is a useful analytic technique.

ABOUT DATASET

The datasets consists of several medical predictor variables and one target variable, Outcome. Predictor variables includes the number of pregnancies the patient has had, their BMI, insulin level, age, and so on.

CONCLUSION

USING THIS MODEL WE CAN ACHIEVE ACCURACY OF 77.34375

THANK YOU

May we all live long enough, or be reincarnated,
to see all the cool tech in the future.