DIABETIC MELLITUS PREDICTION

DESCRIPTION:

Diabetes Mellitus is an increasingly prevalent chronic disease characterized by the body's inability to metabolize glucose. The objective of this study was to build an effective predictive model with high sensitivity and selectivity to better identify Canadian patients at risk of having Diabetes Mellitus based on patient demographic data and the laboratory results during their visits to medical facilities.
The risk factors considered in this simple clinical model are parental history of pragenency record, Glucose, high blood pressure, Thckness of skin, Insulin, Body Mass Index (BMI) and Age.

SOLUTION:

Taking into account a various parameters involved and changes developed in the lump area a machine learning model is developed that helps to predict the particular is diabetic patient or not. The machine learning model take into consideration various parameters like previous pragenency record,Glucose in a body, Blood pressure of body,Thickness of skin, Insuline of body, Body Mass Index(BMI) and Age by using this diffrent paramter predict the particular patient is a diabetic patient or not. By using this parmater i was create model of machine than give output in the form of 0 or 1 . 0 means machine predict not a diabetic pateint and 1 means diabetic person.
I used Auto AI for this model with the help of IBM cloud Auto AI created model internally and give the accurary of model aprrox 79.5656% . I also used nodered technique for deploying the model connect API key, instance id and end score link of model with nodered flow.

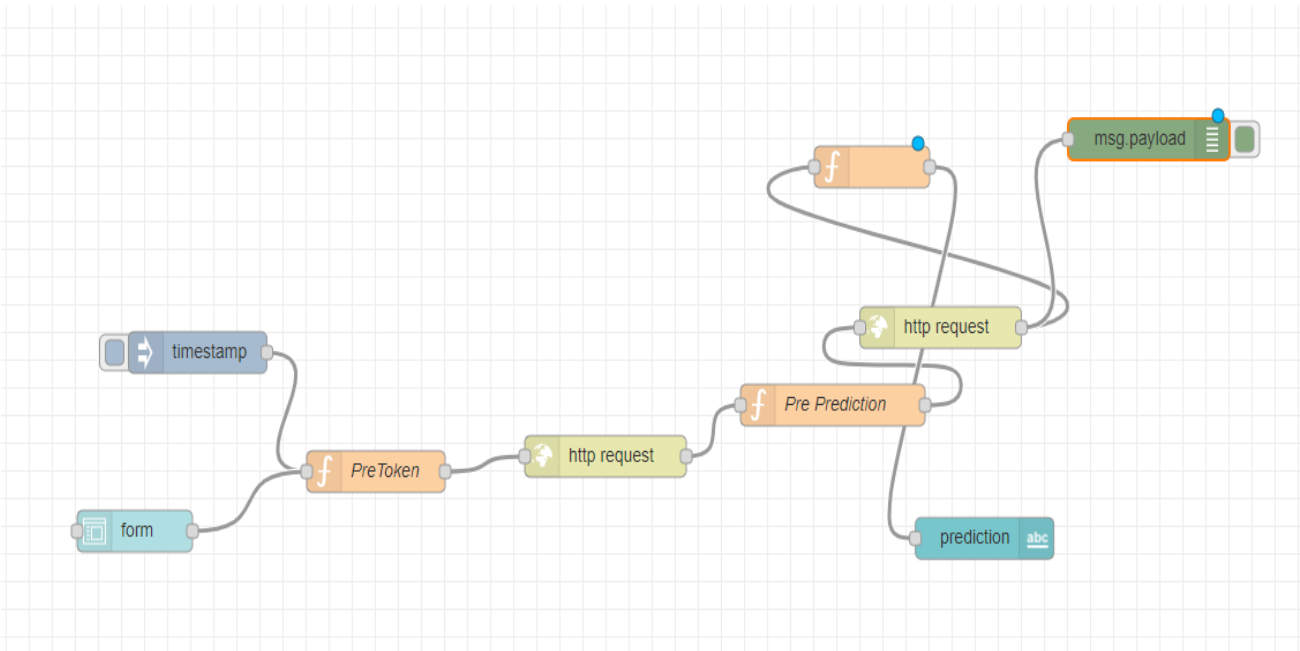
FEED:

The input providing including pragnency record, glucose, blood pressrue,skin thickness, insulin, BMI, diabetespedigree function,age which provided by user. The input parameter can be interger or float datatypes. The user need to submit the feed.

PREDICTION:

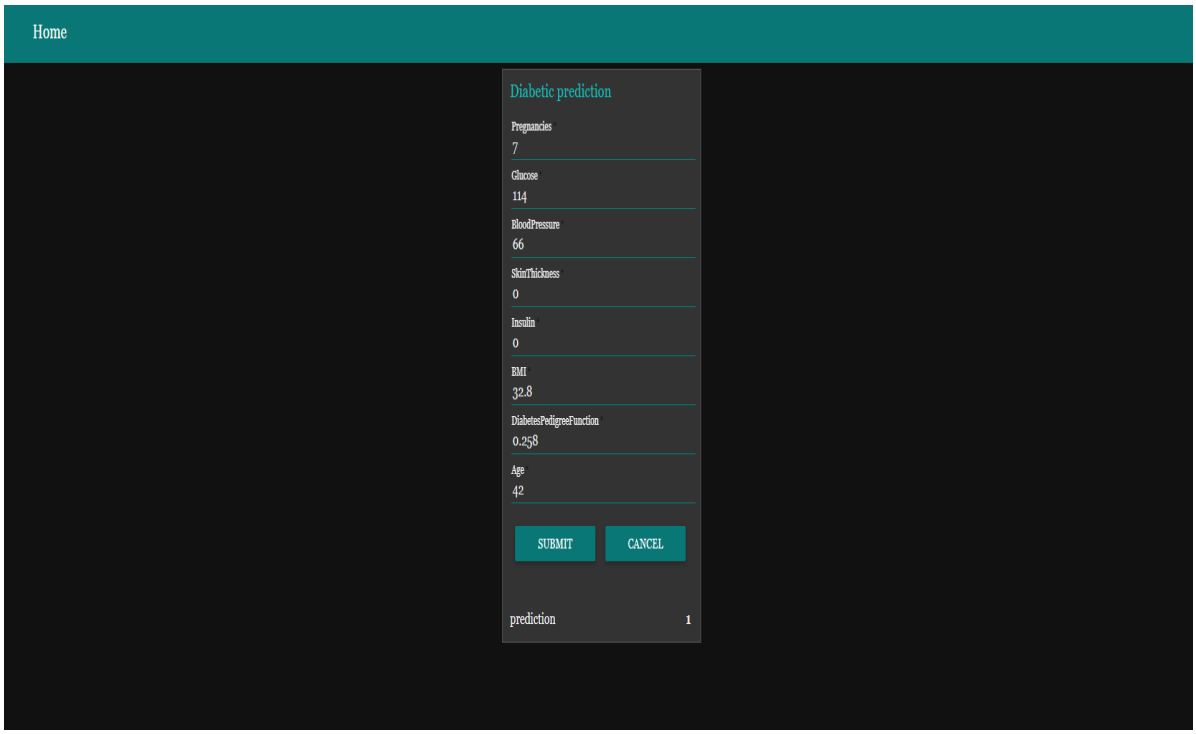
The output is predicted with the discrete value of 0 and 1. The person who is at a high chance of having diabetes in near future scaled to value 1. The persson having no or low risk of diabetes is scaled to 0 value. Thereby an important insight is provided to get the medical attention in time and to make a person more aware of the condition.

NODE CONNECTIONS:

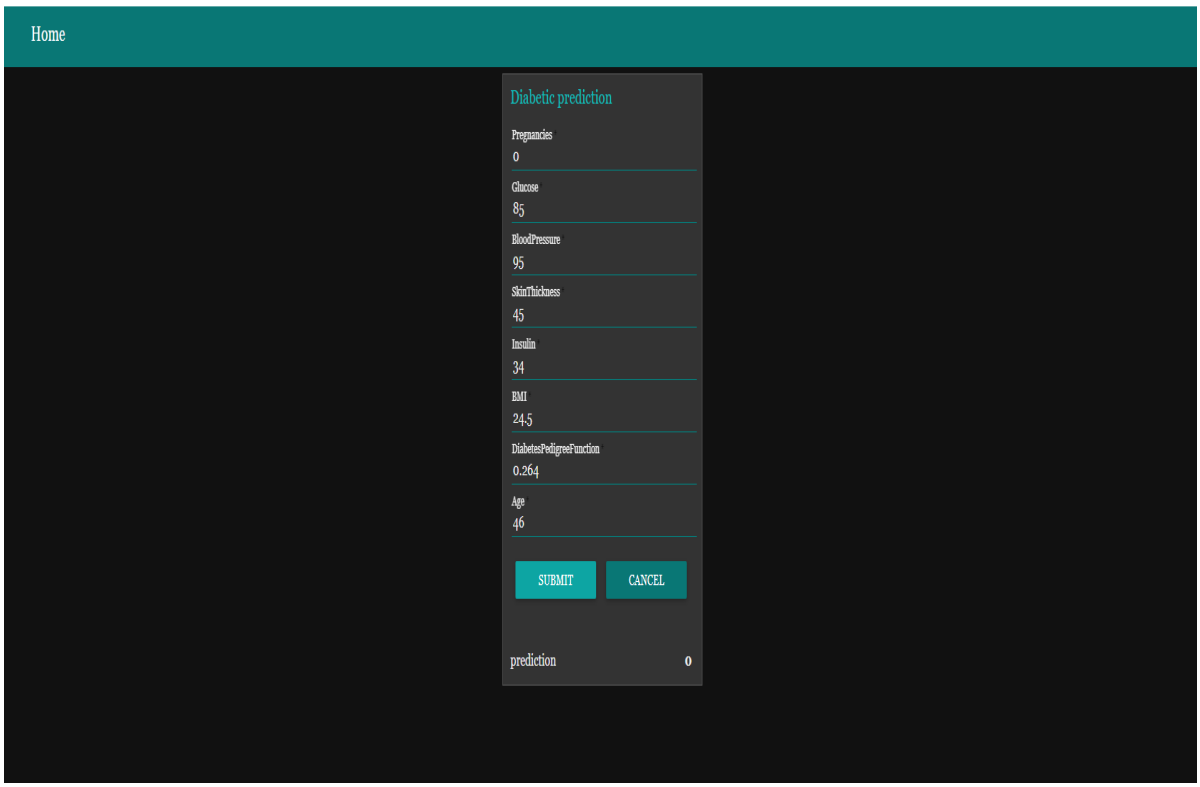


USER INTERFACE LAYOUT:

1. **prediction is 1**



2. Prediction is 0



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