

Microsoft India - Design Challenge

2022

WELL BEING

A Web application to predict whether a person is likely to get stroke based on input parameters like smoking status, diseases, gender and age.

It occurs when the supply of blood to the brain is reduced or blocked completely, which prevents brain tissue from getting oxygen and nutrients.

According to WHO, heart stroke is the 2nd leading cause of death globally, responsible for approximately 15% of total deaths. Early identification of stroke can help doctors to give necessary medication to the patient.

MOTIVE:

The objective of making this web application was for well being of people. People should constantly have a check on their BMI which plays a huge role in maintaining fitness.

- ➔ I have used a data set from Kaggle: Stroke Prediction Dataset
- ➔ This model was trained and validated on 4500+ patient health records.

TOOLS AND TECHNOLOGIES:

PYTHON 3.7

PANDAS

NUMPY

MALPLOTLIB

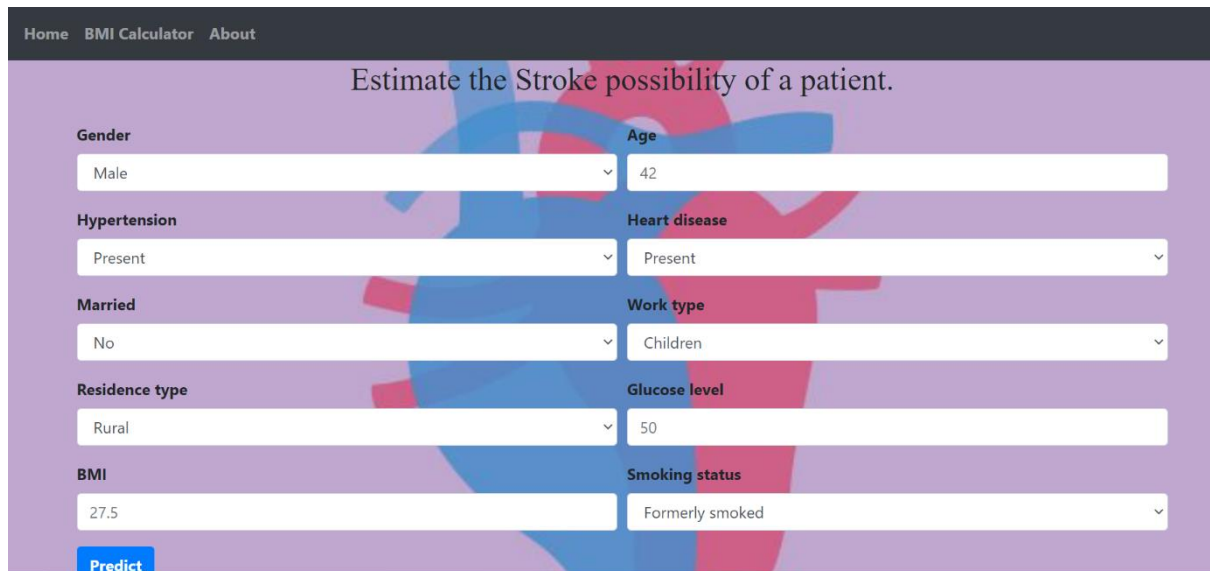
FLASK

HTML

CSS

BOOTSTRAP

WEBSITE LOOK:



Home BMI Calculator About

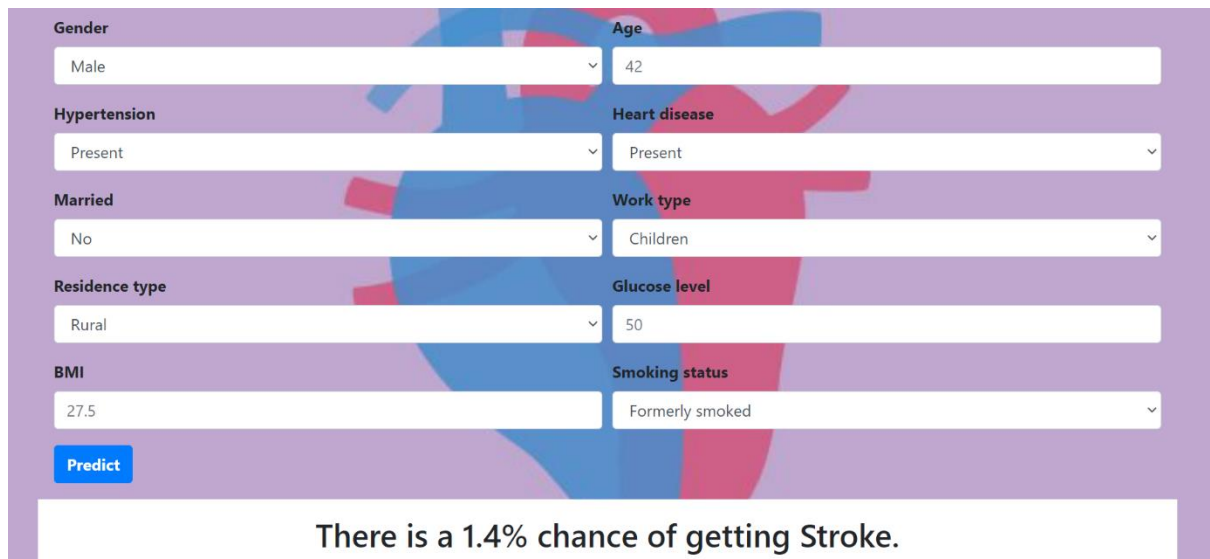
Estimate the Stroke possibility of a patient.

Gender	Age
Male	42
Hypertension	Heart disease
Present	Present
Married	Work type
No	Children
Residence type	Glucose level
Rural	50
BMI	Smoking status
27.5	Formerly smoked

Predict

Input the parameters as per your details:

According to my details the prediction is as follows:



Gender

Male

Age

42

Hypertension

Present

Heart disease

Present

Married

No

Work type

Children

Residence type

Rural

Glucose level

50

BMI

27.5

Smoking status

Formerly smoked

Predict

There is a 1.4% chance of getting Stroke.

We can also calculate BMI in the application:

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Married	No	Work type	Children
Residence type	Rural	Glucose level	50
BMI	27.5	Smoking status	Formerly smoked

Predict

BMI Calculator

Height

Weight

Calculate

Please enter height [cm] and weight [kg]

GITHUB:

<https://github.com/Sridevi139/HEART-STROKE-PREDICTOR->