CAP769–CAPSTONE

Project Topic: -BRAIN STROKE AND PREDICTION

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Abstract

Stroke is a medical condition in which poor blood flow to the brain causes cell death. There are two main types of stroke : ischemic, due to lack of blood flow, and hemorrhagic, due to bleeding. Both cause parts of the brain to stop functioning properly.

Stroke may include an inability to move or feel on one side of the body, problems understanding or speaking, dizziness, or loss of vision to one side. Signs and symptoms often appear soon after the stroke has occurred.

The main risk factor for stroke is high blood pressure. Other risk factors include high blood cholesterol, tobacco smoking, obesity, diabetes mellitus, a previous TIA, end-stage kidney disease, and atrial fibrillation. An ischemic stroke is typically caused by blockage of a blood vessel, though there are also less common causes.

A hemorrhagic stroke is caused by either bleeding directly into the brain or the space between the brain's membranes. Bleeding may occur due to a ruptured brain aneurysm. Diagnosis is typically based on a physical exam and is supported by medical imaging such as a CT scan or MRI scan. A CT scan can

rule out bleeding, but may not necessarily rule out ischemia, which early on typically does not show up on a CT scan.

Attribute Information:-

1) gender: "Male", "Female" or "Other"
2) age: age of the patient
3) hypertension: 0 if the patient doesn't have hypertension, 1 if the patient has hypertension
4) heart_disease: 0 if the patient doesn't have any heart diseases, 1 if the patient has a heart disease
5) ever_married: "No" or "Yes"
6) wor_ktype: "children", "Govtjov", "Neverworked", "Private" or "Self-employed"
7) Residence_type: "Rural" or "Urban"
8) avg_glucose_level: average glucose level in blood
9) bmi: body mass index
10) smoking_status: "formerly smoked", "never smoked", "smokes" or "Unknown"*
11) stroke: 1 if the patient had a stroke or 0 if not

*Note: "Unknown" in smoking_status means that the information is unavailable for this patient

List of Programming and Scripting Language :-

1. Python:
     I. Numpy
    II. Pandas
   III. Matplotlib
    IV. Pyplot
     V. Seaborn
    VI. Sklearn
   VII. LogisticRegression
  VIII. Metrices
    IX. Warnings
     X. Flask
    XI. Flask_bootstrap
   XII. Flask_ngrok
2. HTML:
     I. Elements
    II. Attributes
   III. Hyperlinks
    IV. Input
     V. Button

3. CSS:
    I.   Style
    II.   Colors
    III. Padding
    IV.   Margins
    V.   Layout
4. JavaScript:
    I.   Operations
    II.   Variables
    III. Data-Types

List of Platform :-

1. Google Colab
2. GitHub
3. Browser(Firefox, Chrome, Edge etc.)