

## SOURCE CODE

```
import streamlit as st
import pickle
import pandas as pd
import sklearn
st.set_page_config(
    page_title = 'STROKE PREDICTION MODEL',
    page_icon = "",
    layout = 'wide',
    initial_sidebar_state='expanded'
)
model = pickle.load(open('model.pkl','rb'))
st.header(' STROKE PREDICTION MODEL')
st.sidebar.write('Input features:')
age = st.sidebar.slider('Age:', 1, 100, 20)
hypertension = st.sidebar.slider('Hypertension', 0, 1, 0)
heart_disease = st.sidebar.slider('Heart disease', 0.0, 1.0, 0.0)
avg_glucose_level = st.sidebar.slider('Glucose level', 1.0, 1000.0, 250.0)
bmi = st.sidebar.slider('What is your BMI?', 1.0, 100.0, 24.9)
ever_married = st.radio("Are you married?", ('Yes', 'No'))
gender = st.radio("What is your gender?", ('Male', 'Female'))
work_type = st.radio("Which of the following best describes your work type?", ('Private', 'Self-employed', 'Govt_job', 'children', 'Never_worked'))
residence_type = st.radio("What is your residence type?", ('Urban', 'Rural'))
smoking_status = st.radio("What is your smoking status?", ('formerly smoked', 'never smoked', 'smokes')) 22
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ever_married_indx = 1 if ever_married == "Yes" else 0
gender_indx = 1 if gender == "Male" else 0
work_type_input = work_type
work_type_indx = {
    "Private": 0,
    "Self-employed": 0,
    "Govt_job": 0,
    "children": 0,
    "Never_worked": 0,
}
work_type_indx[work_type_input] = 1
residence_type_indx = 1 if residence_type == "Urban" else 0
smoking_status_input = smoking_status
smoking_status_formerly_smoked_indx = 1 if smoking_status_input == "formerly smoked" else 0
smoking_status_smokes_indx = 1 if smoking_status_input == "smokes" else 0
data = {
    "age": [age],
    "avg_glucose_level": [avg_glucose_level],
    "bmi": [bmi],
    "gender_Male": [gender_indx ],
    "ever_married_Yes": [ever_married_indx],
    "work_type_Govt_job": [work_type_indx ["Govt_job"]],
    "work_type_Never_worked": [work_type_indx ["Never_worked"]],
    "work_type_Private": [work_type_indx ["Private"]],
    "work_type_Self-employed": [work_type_indx ["Self-employed"]],
    "work_type_children": [work_type_indx ["children"]],
    "Residence_type_Urban": [residence_type_indx ],
    "smoking_status_formerly smoked": [smoking_status_formerly_smoked_indx ],
    "smoking_status_smokes": [smoking_status_smokes_indx ]
}
test_df = pd.DataFrame(data)
pred_prob = model.predict_proba(test_df)[: ,1]
st.subheader('Output')
st.metric('Predicted probability of having a stroke = ', pred_prob, '')

```