## Data Intake Report

Name: Stroke Prediction Report date: 17/10/2021 Internship Batch: LISUM04

Version: 1.0

Data intake by: Mohammed Wahba

Data intake reviewer: Data storage location:

## Tabular data details:

<b>Total number of observations</b>	5110
<b>Total number of features</b>	12
Base format of the file	.csv
Size of the data	309 KB

Note: Replicate same table with file name if you have more than one file.

## **Proposed Approach:**

• Mention approach of dedup validation (identification)

The gender column had one unidentifiable category. And label encoder had to be used to convert the strings into 0 or 1.

• Mention your assumptions (if you assume any other thing for data quality analysis)

Since the work type feature was correlated to the age feature it can be removed. But it was not removed as it will not affect the prediction.

```
from flask import Flask, render_template, request
import joblib
import os
import numpy as np
import pickle
app= Flask( name )
@app.route("/")
def index():
   return render template("home.html")
@app.route("/result", methods=['POST', 'GET'])
def result():
   gender=int(str(request.form['gender']))
    age=int(request.form['age'])
    hypertension=int(request.form['hypertension'])
    heart_disease = int(request.form['heart_disease'])
    ever_married = int(request.form['ever_married'])
    work_type = int(request.form['work_type'])
    Residence type = int(request.form['Residence type'])
    avg_glucose_level = float(request.form['avg_glucose_level'])
    bmi = float(request.form['bmi'])
    smoking_status = int(request.form['smoking_status'])
    x=np.array([gender,age,hypertension,heart_disease,ever_married,work_type,Residence_type,
                avg_glucose_level,bmi,smoking_status]).reshape(1,-1)
    model = pickle.load(open('model.pkl', 'rb'))
   prediction=model.predict(x)
    # for No Stroke Risk
    if prediction==0:
        return render_template('nostroke.html')
        return render_template('stroke.html')
if __name_ =="__main__":
    app.run(debug=True,port=5000)
```

```
stroke.html X
templates > 🗘 stroke.html > ...
 1 | doctype html
     <html lang="en">
         <meta charset="utf-8">
         <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">
         <!-- Bootstrap CSS -->
         k rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css" integrity="sha384-Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJ1SAwiGgFAW]
         <title>Diagnosis</title>
12 <nav class="navbar navbar-dark bg-dark">
         <a class="navbar-brand" href="#">Stroke Risk Diagnosis</a>
         <button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#navbarNav" aria-controls="navbarNav" aria-expanded="false" aria-label="Toggle navigation">
            <span class="navbar-toggler-icon"></span>
         <div class="collapse navbar-collapse" id="navbarNav">
            <a class="nav-link" href="/">Home</a>
                <a class="nav-link" href="/about">About</a>
         <div class="jumbotron hero-nature">
             <h1 class="hero-title">You have been diagnosed with Stroke Risk</h1>
             The algorithm has diagnosed you with Stroke Risk based on your inputs. Please consult a Doctor.
         div.jumbotron.hero-nature {
            color: □white;
            text-align: center;
            background: url('bg.jpg');
            background-size: contain;
```

```
home.html X
templates > 🐠 home.html > 😚 html > 😚 nav.navbar.navbar.navbar.dark.bg-dark.navbar-fixed-top > 🔗 div#navbarNav.collapse.navbar-collapse > 🚱 ul.navbar-nav > 🚱 li.nav-item.active
     <html lang="en">
         <meta charset="utf-8">
         <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">
         < link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css" integrity="sha384-Gn5384xqQ1aoWXA+058RXPyPg6fy4IWvTNh0E263XmFcJ1SAwiGgFAW/</pre>
         <title>Home</title>
<a class="navbar-brand" href="#">Stroke Risk Prediction</a>
         <button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#navbarNav" aria-controls="navbarNav" aria-expanded="false" aria-label="Toggle navigation">
         <div class="collapse navbar-collapse" id="navbarNav">
             li class="nav-item active"
                  <a class="nav-link" href="/">Home</a>
                 <a class="nav-link" href="/about">About</a>
                    <form action="{{ url_for('result') }}" method="post">
                        <div class="form-group">
                            <div class="row">
                                    /lahel for-"gender"\gender//lahel
```

```
nostroke.html X
1 doctype html
  2 <html lang="en">
              <meta charset="utf-8">
                <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">
                   < link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css" integrity="sha384-Gn5384xqQ1aokWA+058RXPxPg6fy4IWYTNh0E263XmFc]1SAwiGgFAM</pre>
                     <title>Diagnosis</title>
12 <nav class="navbar navbar-dark bg-dark">
                <a class="navbar-brand" href="#">Stroke Risk Diagnosis</a>
                <span class="navbar-toggler-icon"></span>
                   <div class="collapse navbar-collapse" id="navbarNav">
                                           <a class="nav-link" href="/">Home</a>
                                       <a class="nav-link" href="/about">About</a>
                     <div class="jumbotron hero-nature">
                               \hfill 	ext{class="hero-title"} You have been diagnosed with no Stroke Risk. Congratulations < \hfill 	ext{h1} \hfill 	ext{h1} > 100 \hfill 	ext{m} = 100 
                               The algorithm has diagnosed you with no Stroke Risk based on your inputs. However it might be better to talk to a doctor regardless.
                     div.jumbotron.hero-nature {
                              color: ■white;
                               text-align: center;
                               background: url('bg.jpg');
                               background-size: contain;
```