Proposal fetal health project

Group names:

Nada alqabbani

Shahad almubki

Nada alhamad

Sarah alameer

Hala almulhim

Instructor:

Mohammed baddar

❖ Backstory

We will study the Fetal Health Classification if normal or not by some of the features to help prove the predicate before he was born.

Our predicted It will help us to maintain the health of the fetus and treat problems quickly before complications occur.

❖ Question

- Is the fetus if it is normal or not?
- Is the fetus's heart rate normal or not?
- Is the fetus's rate of movement normal or not?

❖ Target & goal

We Classify which the fetus is normal or not

- Y= is normal or not
- X= is features in table

❖ Tools

- Python
- Python libraries (sklearn, Seaborn , pandas , numby , collections, Matplotlib)
- Jupyter notb

❖ Data Description

Features	Description
LB	FHR baseline fetal heart rate value
AC	Number of accelerations per second
FM	Number of fetal movements per second
UC	Number of uterine contractions per second
DL	Number of light decelerations per second
DS	Number of severe decelerations per second
DP	Number of prolongued decelerations per second
ASTV	percentage of time with abnormal short-term variability
MSTV	mean value of short-term variability
ALTV	percentage of time with abnormal long-term variability
MLTV	mean value of long-term variability
Width	width of FHR histogram
Min	minimum of FHR histogram
Max	Maximum of FHR histogram
Nmax	Number of histogram peaks
Nzeros	Number of histogram zeros
Mode	histogram mode
Mean	histogram mean
Median	histogram median
Variance	histogram variance
Tendency	histogram tendency
CLASS	FHR pattern class code (1 to 10)
NSP	fetal state class code (N=normal; S=suspect; P=pathologic)