**Project Proposal**

**-Problem statement:**

There are many pregnant women who suddenly miscarry, which affects their psychological state, so we will build a model capable of predicting the continuation of pregnancy or not.

The sooner a miscarriage occurs in the first weeks of pregnancy, the easier and safer it will be.

**-Data Description:**

We got the data from NCBI containing 1000000 observations and 10 features.

website**: https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5992995/**

**Columns:**

Miscarriage/No Miscarriage (target variable) 🡪 Int .

Age 🡪 The maternal age of the woman, Double.

BMI 🡪 It is an attempt to quantify the amount of tissue mass , Double.

Nmisc 🡪 The number of previous miscarriages of the woman during her pregnancies,Int.

Activity 🡪 The level of the activity of the woman during the day, Int.

Location 🡪 Location where the woman spends her time, int.

Temp 🡪 Body Temperature of the woman, Double.

BPM 🡪 Heart Rate Variability (HRV) per minute, Long.

Stress 🡪 Stress Emotions, Long.

BP 🡪 Blood Pressure indicator, Long.

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-**Tools:**

* + Programs: Jupyter Notebook
  + Libraries: numpy, pandas, matplotlib, seaborn, csv, GridSerchCV.
  + Functions: shape, value\_counts, info, drop, astype, groupby, mean.
  + Plots: pointplot, barplot, histogram, scatter, distplot, Pie Chart

**-MVP Goal:**

The goal of this project is to predict the continuation of pregnancy or not using Classification algorithms.