USE OF A MODERN CONTRACEPTIVE METHOD

Factors explaining the intention

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WHY TALKING ABOUT CONTRACEPTION ?

Some married women in my neighborhood, intended to use contraceptive method but didn't know how to address this issue to her husband or her physicians. Using modern contraception is a challenging choice in the life of these married women. It's was a source of conflict with their husband due to the socio-demographic characteristics of those two partners. According to me, it's important for Family planning workers to identify factors that could influence the evolution of woman's intention to use a modern contraceptive method.

PROBLEM TO SOLVE

This analysis attempts to help Family Planning workers to better understand the characteristics of Haitian married women based on intentions to use a modern contraceptive method in order to establish a pathway for thinking about contraceptive demand by category of woman.

GOALS

The objective of this project was to profile categories of woman who intends to use modern contraceptive method and to identify the factors associated.

QUESTION RESEARCH

As my project aims to question married women's choice to use modern contraceptive methods. We are asking if if there is a profile that fits any socio-economic category of woman who intends to use contraception and could influence the choice of these women ?

TARGET AUDIENCE

The purpose of this project can be of interest to everyone, especially :

- Ministry of Public Health and Population
- International Organizations/Donors and NGOs
- Working in reproductive health and family planning
- Married woman and others

DATA SOURCE

The data that used in this Analysis comes from the Mortality, Morbidity and Service Utilization Survey (EMMUS VI) conducted in 2016. These data are available upon request from the Ministry of Public Health and Population (MPHP).

DEMOGRAPHIC CHARACTERISTICS OF INTENDED USER
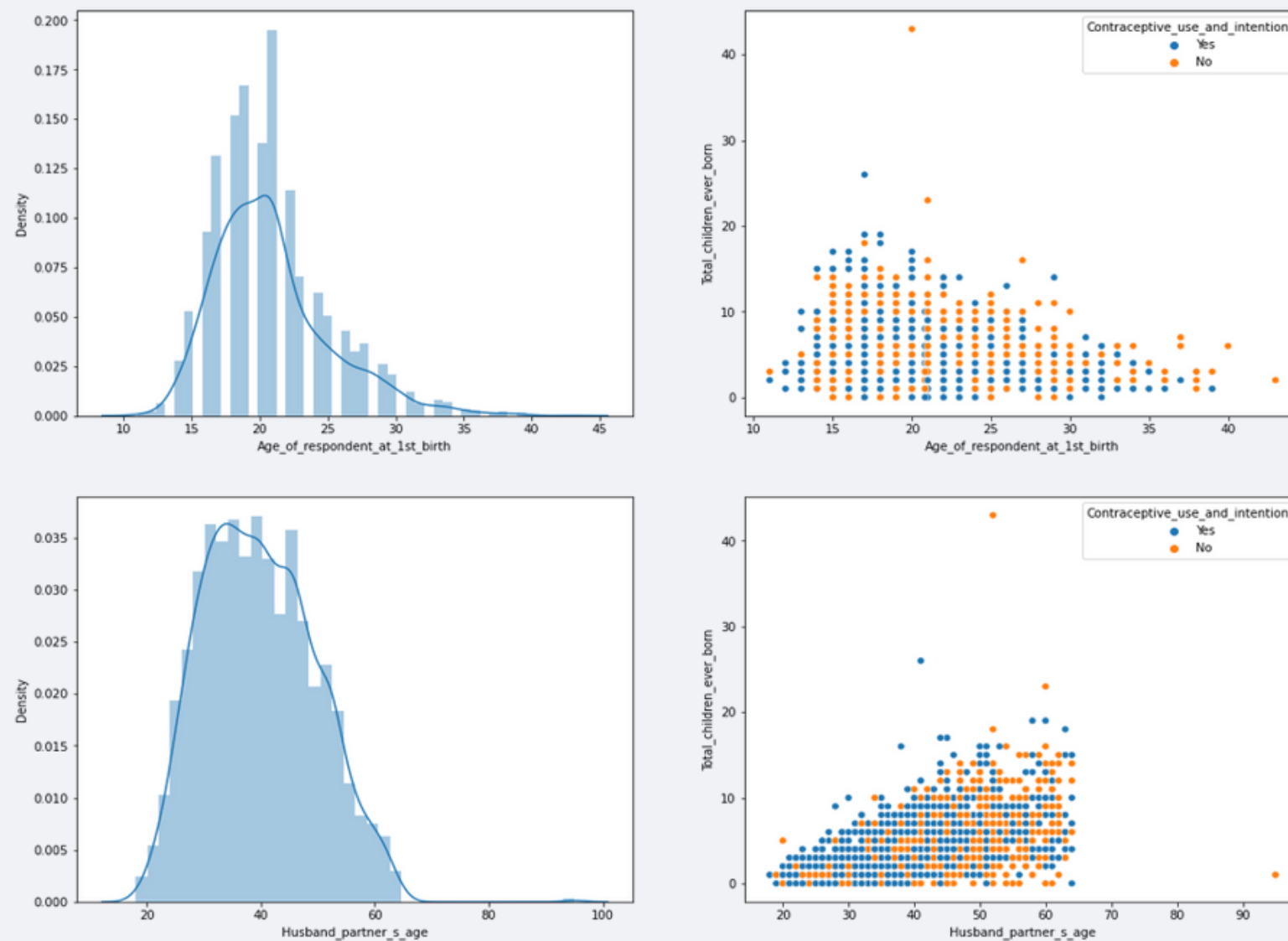
They made their first experience of living-with-a-partner from very early (15-20) and they have more children
This category are strongly interested in MCM

Women with aged husband gave birth to more children and are more interested to MCM when their husband's age are between 40-60 years old

DEMOGRAPHIC CHARACTERISTICS OF INTENDED USER
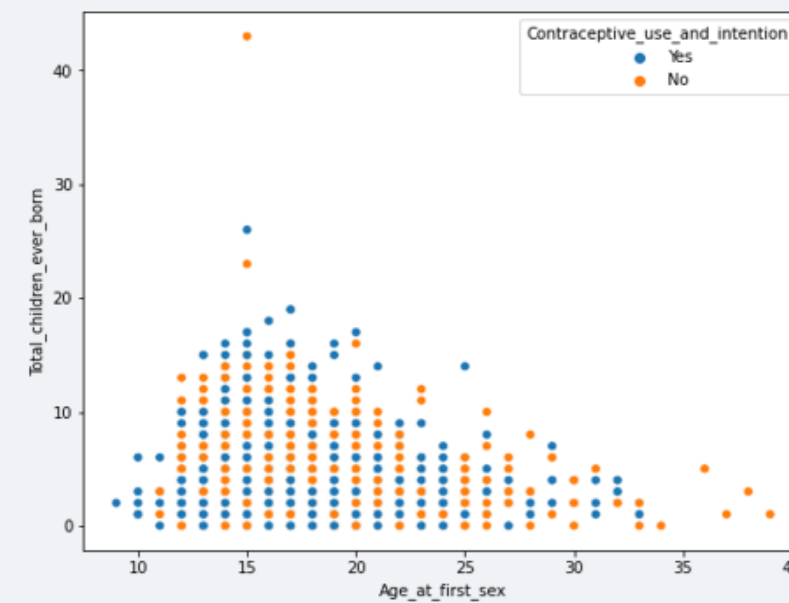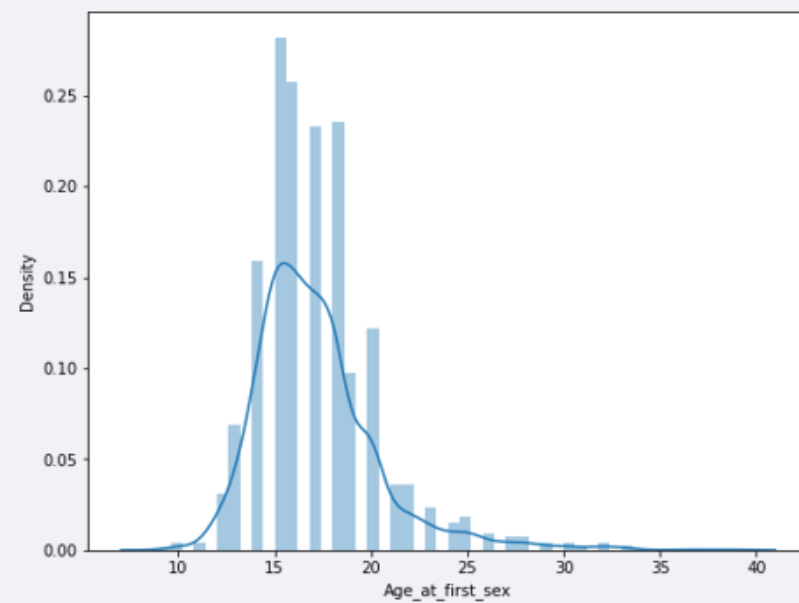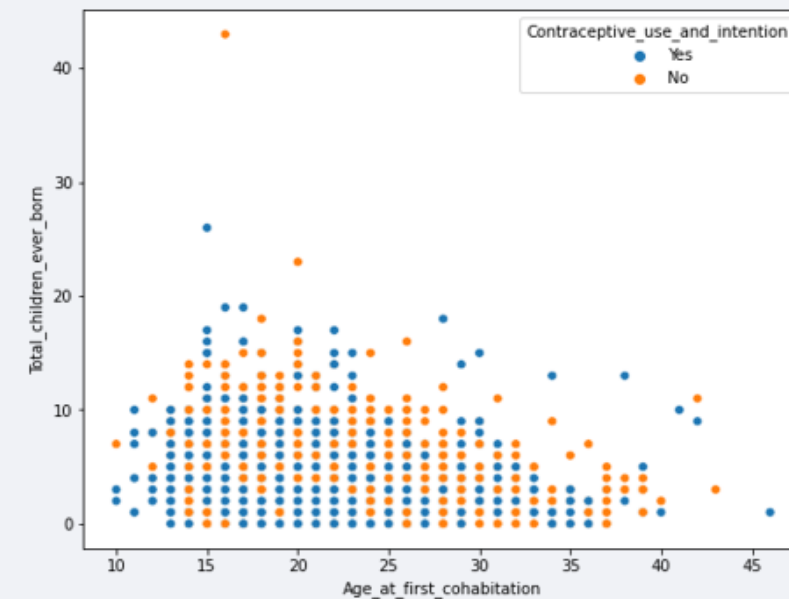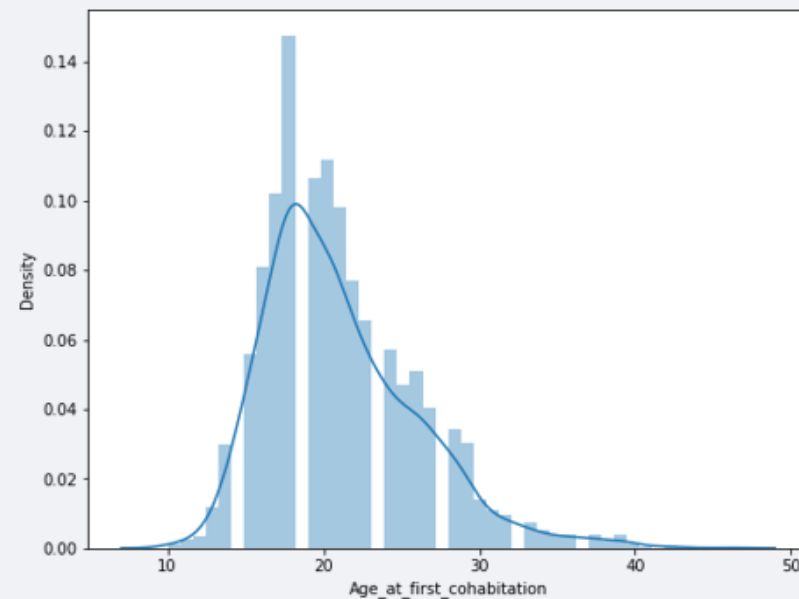
Most of woman gave birth to their first child between the ages of 15-30.
This category are strongly interested in MCM

They also started their sexual experiences at a very early age (14-20 years)
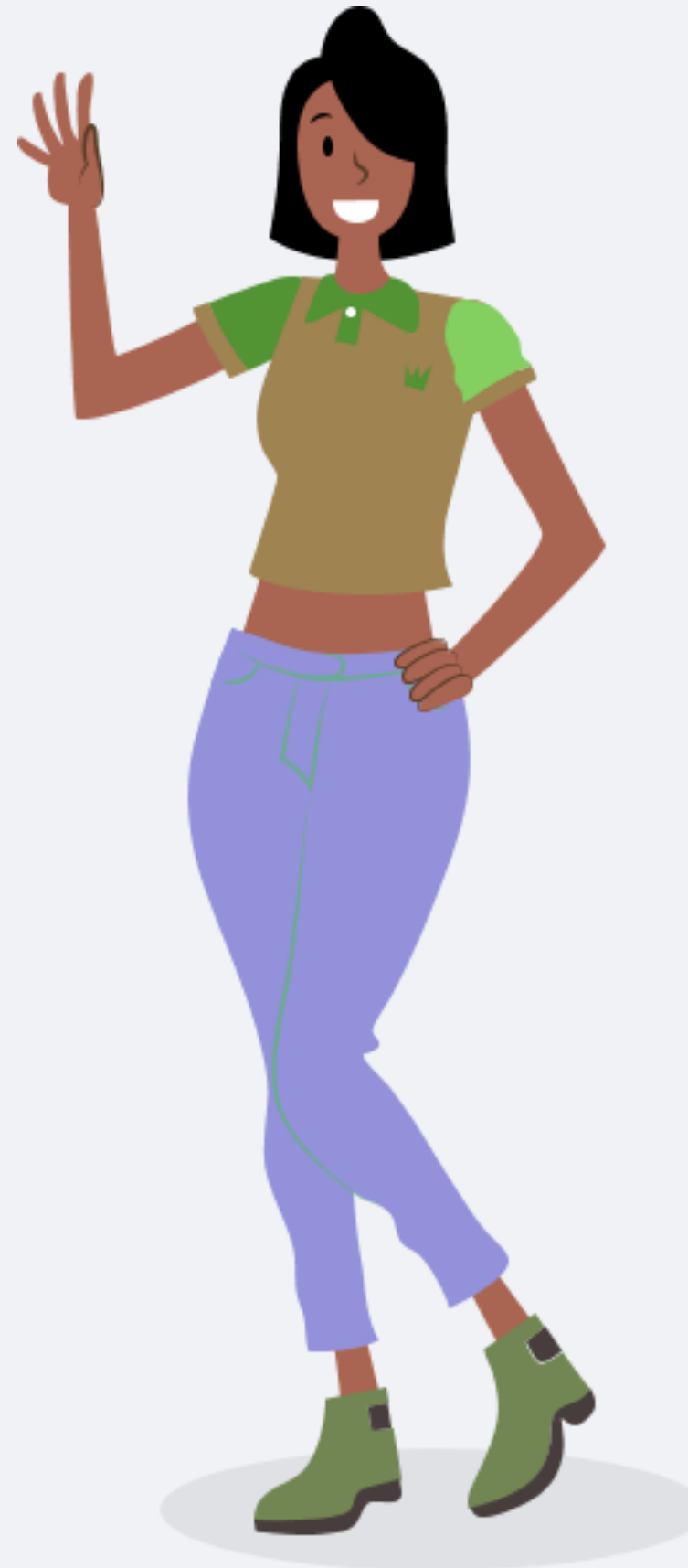They give birth to more children and they are interested in MCM

GEOGRAPHY

- They are come from Ouest(20%), Artibonite(12%) and Nord(11%)
- 2/3 come from rural area

RELIGION

50% are Protestant and 64% are interested in using MCM

WOMAN'S AGE

- Minor (88%) and 18-31 (80%) are more interested in using MCM
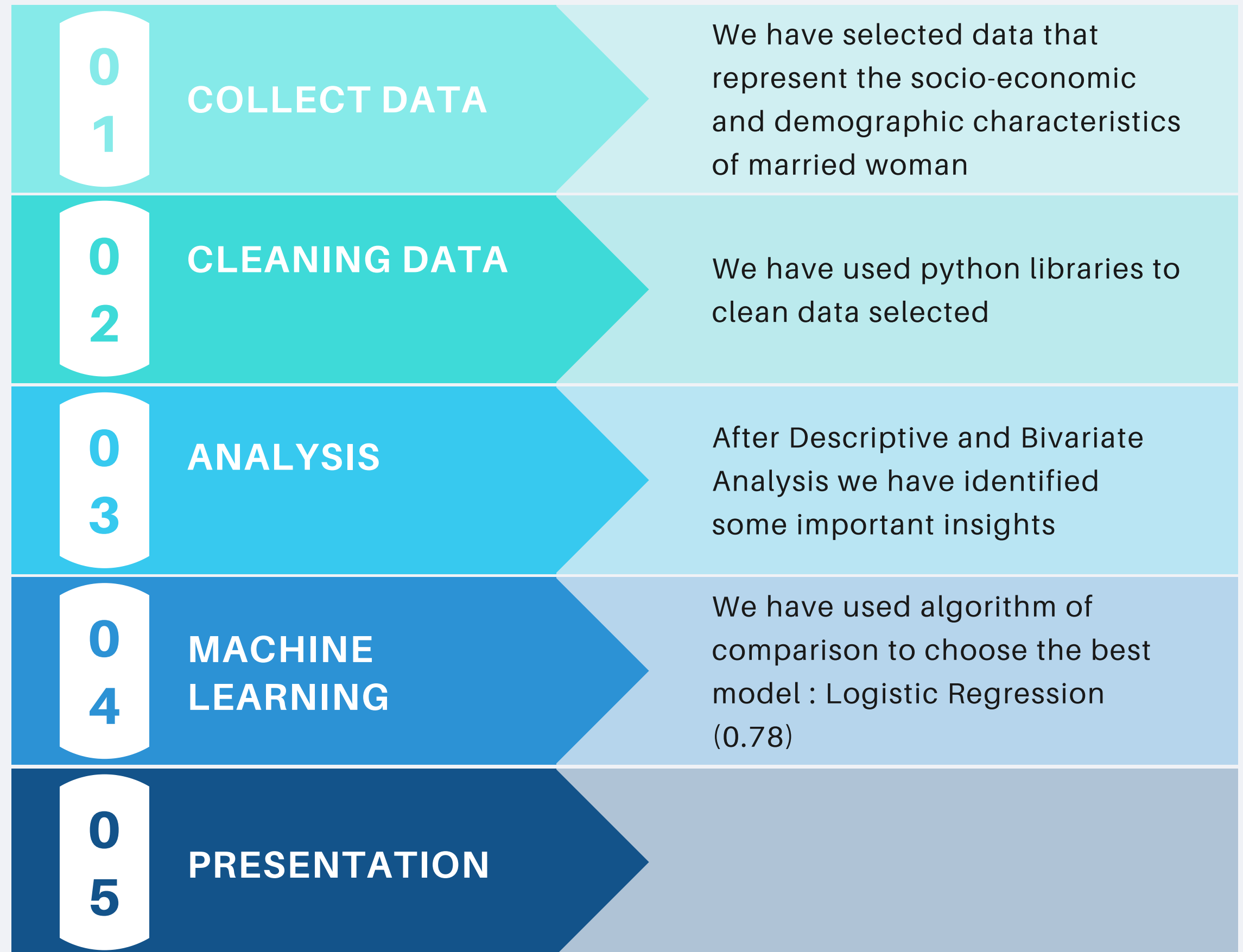- + 32 seems unconcerned

SEX OR HEALTH

- 2/3 had less than 3 lifetime partners and 1/3 had 3-5
- 1/5 have lived with a man more than once
- 5% are covered by insurance

EDUCATION

- Primary (71%) and Secondary (70%) women are more likely interested in using MCM later

METHODOLOGY

01 COLLECT DATA

We have selected data that represent the socio-economic and demographic characteristics of married woman

02 CLEANING DATA

We have used python libraries to clean data selected

03 ANALYSIS

After Descriptive and Bivariate Analysis we have identified some important insights

04 MACHINE LEARNING

We have used algorithm of comparison to choose the best model : Logistic Regression (0.78)

05 PRESENTATION

KEY VARIABLES(1)

After eliminating the collinear and strongly correlated variables(+85%), the remaining variables constitute the key variables. Five predictors related to the woman's experiences have been identified. And by using logistic regression and a RandomForest Techniques, we determined the most important of the key variables: women's age.

Woman's Age

Cohabitation's Age

Husband's Age

Sex

Unions

KEY VARIABLES(2)

After eliminating the collinear and strongly correlated variables(+85%), the remaining variables constitute the key variables. Five predictors related to the woman's experiences have been identified. And by using logistic regression and a RandomForest Techniques, we determined the most important of the key variables: women's age.

Type of residence

Aware of family planning campaign

Health facility visit frequency

First birth's Age

Total Children

RECOMMANDATION

What actors could do ?

01

Intention to use a modern contraceptive method should be used as a monitoring indicator in planning programs

02

Familial Planning workers should consider married women's category between 18-31 years old in their contraceptive campaign

03

Assessment of contraceptive demand should take more account of the socio-demographic characteristics of women and their partners

04

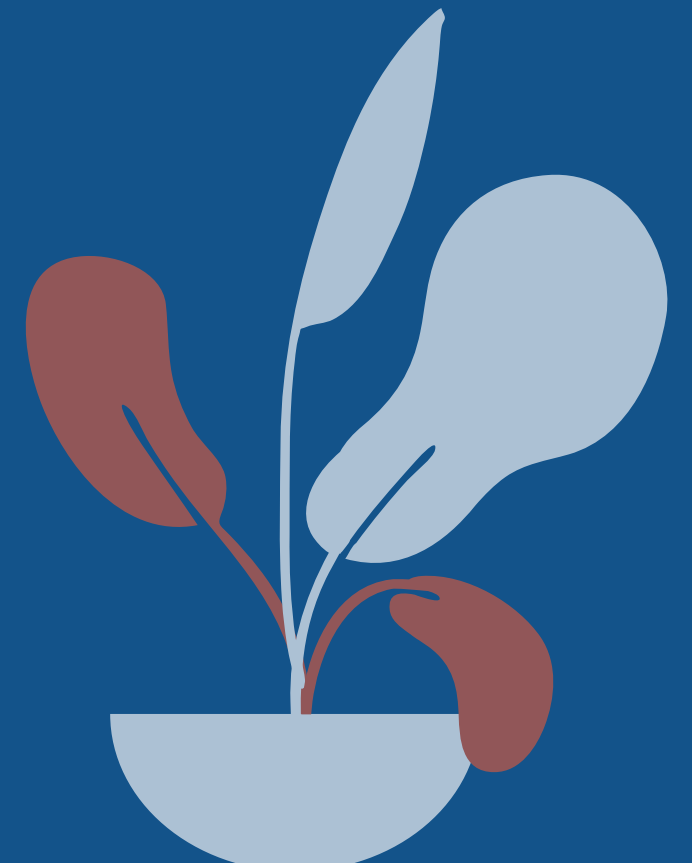Planning programs workers and Government should raise awareness among Minor category
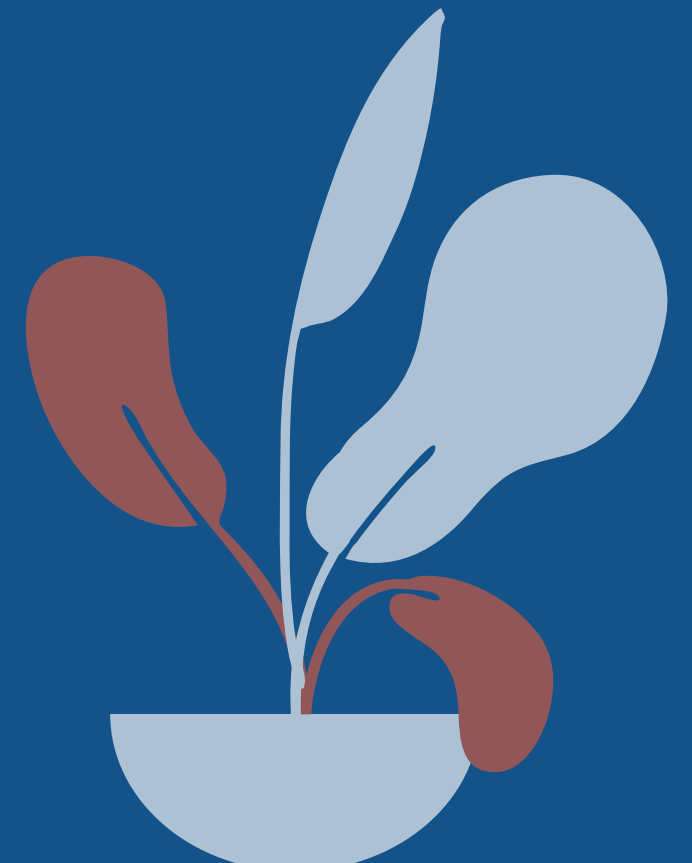
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THANK YOU !