**Qualif Big Data Processing AY23-2 | Case 02**

**Predict Method**:

* Classification

**Selected Data:**

* INFANT\_ALIVE\_AT\_REPORT **[FOR DATA TESTING]**
* INFANT\_SEX [Gender]
* CIG\_BEFORE [Use Ciggeartes Before]
* ANESTHESIA [Use Anesthesia]
* STEROIDS [Use Steroids]
* MOTHER\_BMI\_RECODE [Mother’s BMI]
* ANTIBIOTICS [Use Antibiotics]
* DIABETES\_GEST [Diabetes while pregnant]
* APGAR\_5 [Inflant APGAR score based on five criteria]

**Information:**

APGAR 5 [Five Criteria]

* appearance (skin color)
* pulse (heart rate)
* grimace (reflex irritability)
* activity (muscle tone)
* respiration (breathing rate and effort)

**Data Visualization 1**

A blue and orange pie chart

Description automatically generated

Photo 1. *Prediction Survive Rates*

**Conclusion:**

* We can see that if the mother follows those rules:
  + Not using ciggerate
  + Not using anesthesia
  + Not using steroids
  + Have good BMI
  + Not using antibiotics
  + Not diabetes

The inflant’s survival rate will be increased by **53.13%**.

**Data Visualization 2**

A graph of a number of blue bars

Description automatically generated

Photo 2. *Bar Chart showing the data of Alive and Dead if using Anesthesia and Antibiotics.*

**Conclusion:**

[D -> Death | A -> Alive]

In this chart we can get a lot information for example: +- 900 Inflant death because the Mother is using the antibiotics. Another example is +- 500 Inflant death because the Mother is using the anesthesia.

**Data Visualization 3**

A graph of a number of patients

Description automatically generated with medium confidence

Photo 3. *Scatter Plot about Survive Rate with Mom’s BMI and APGAR 5*

**Conclusion:**

[Black: Not Survived | Yellow: Survived]

Shows a scatter plot about the survival rate alongs with Mom’s BMI and APGAR 5. Here we can see the relation of the data Mom’s BMI and APGAR 5.

**Model**