Presentation on Diabetes story

BY:

REG NO: 12318444

NAME: S NITIN GOURAV

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SUBJECT: DESCRIPTIVE ANALYSIS

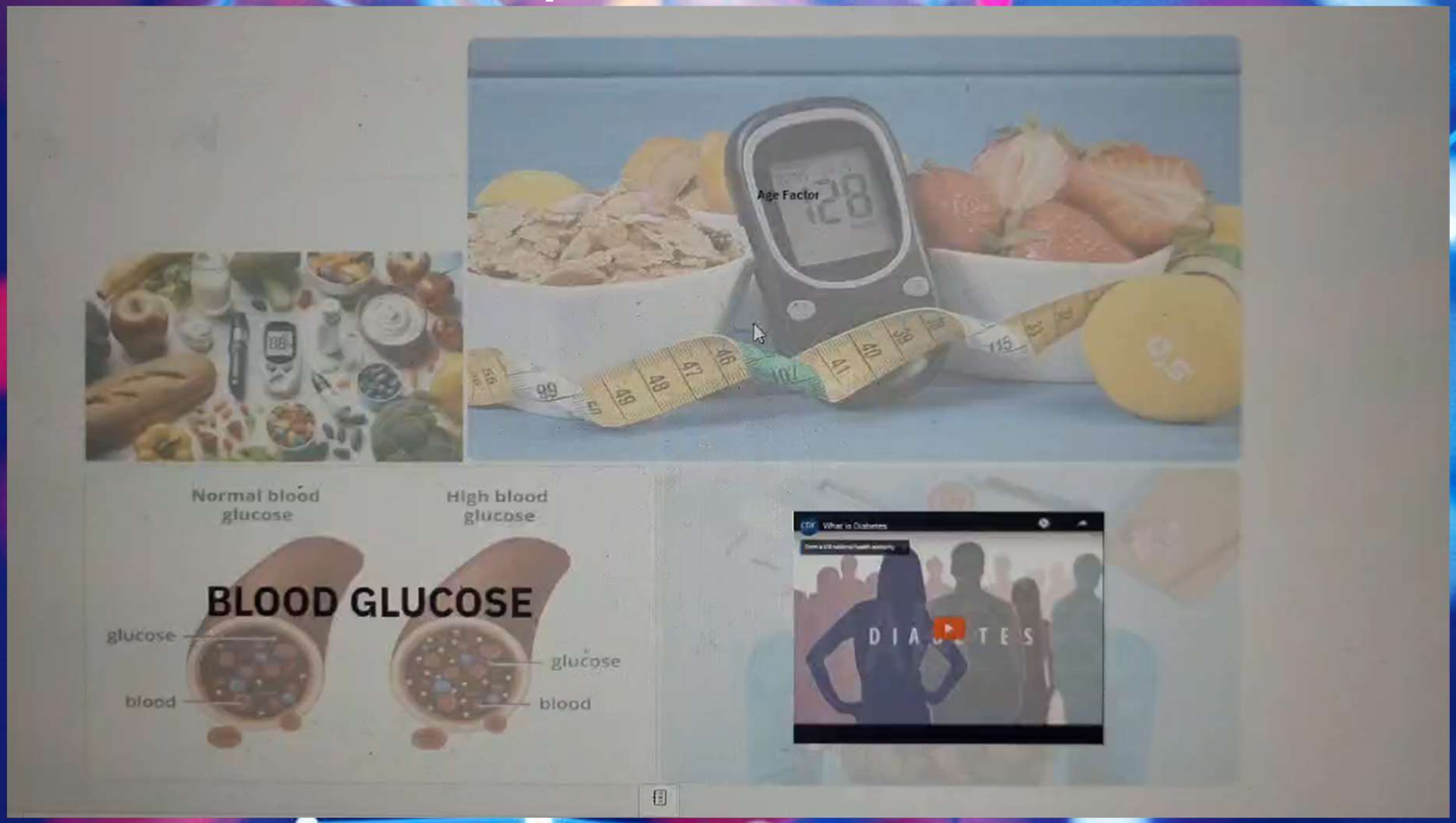
Introduction

DIABETES

LINK: https://www.kaggle.com/datasets/iammustafatz/diabetes-prediction-dataset

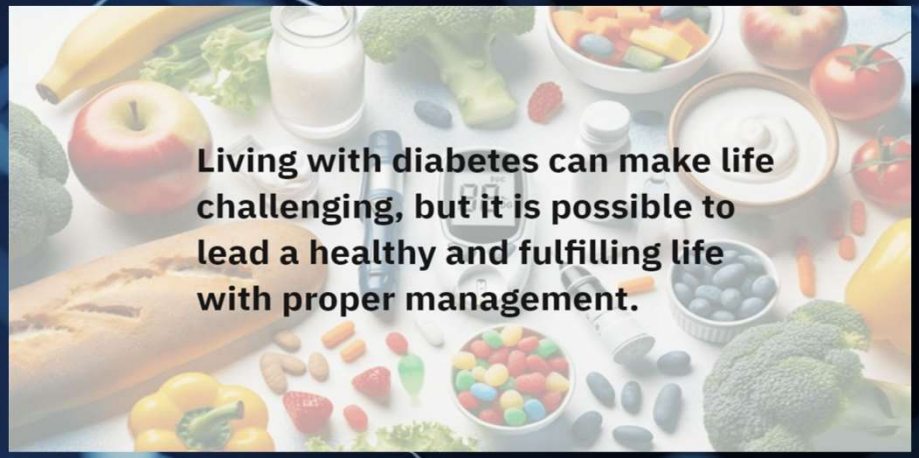
- The **Diabetes prediction dataset** is a collection of medical and demographic data from patients, along with their diabetes status (positive or negative). The data includes features such as age, gender, body mass index (BMI), hypertension, heart disease, smoking history, HbA1c level, and blood glucose level. This dataset can be used to build machine learning models to predict diabetes in patients based on their medical history and demographic information. This can be useful for healthcare professionals in identifying patients who may be at risk of developing diabetes and in developing personalized treatment plans. Additionally, the dataset can be used by researchers to explore the relationships between various medical and demographic factors and the likelihood of developing diabetes.

Video of the DIABETES story

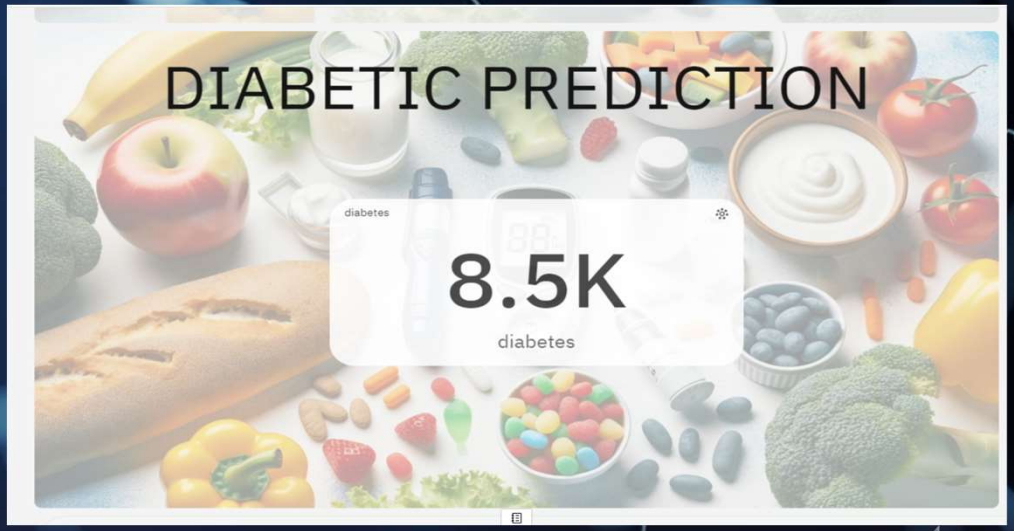


DIABETES STORY ELEMENTS

1> It tells us the text that we put in the story about the diabetes in sequence and animated manner.

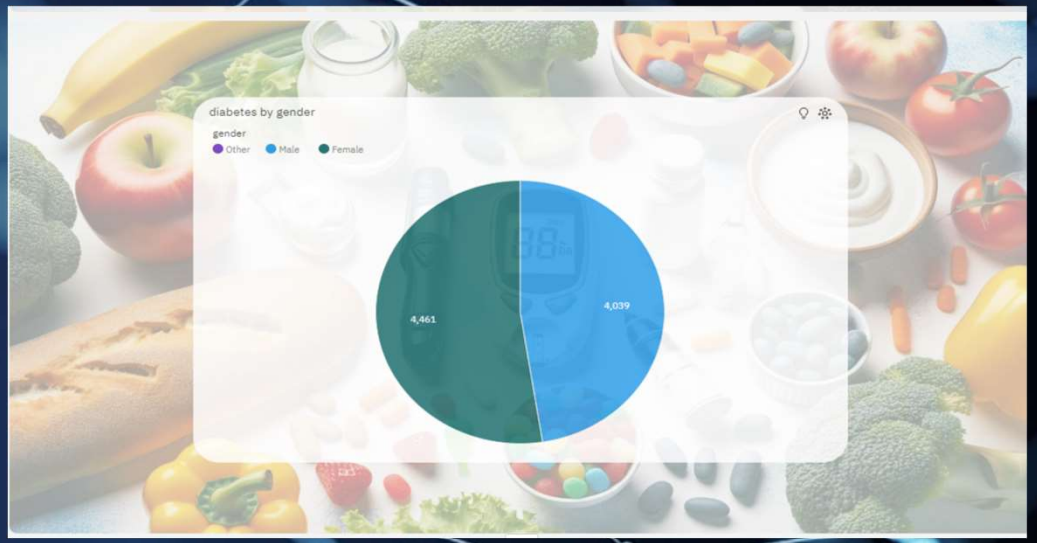


2> Here we have put the summary card that shows the total diabetic patients in animated count form., which is 85000 in number.

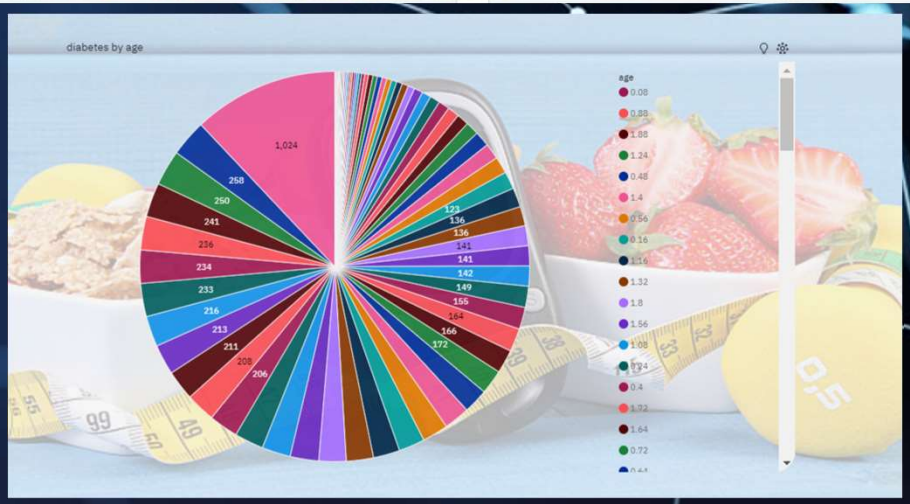


DIABETES STORY ELEMENTS

3>This is a pie chart showing that female have more the chances of diabetes compared to male.

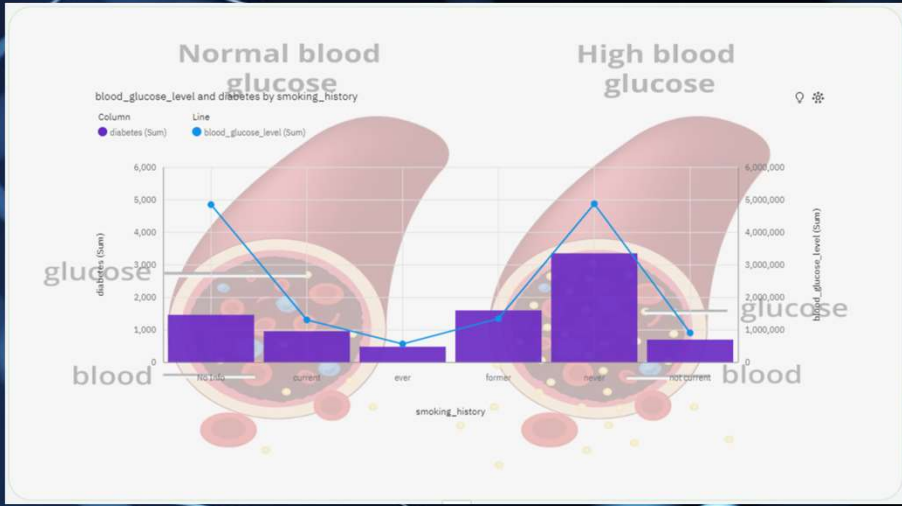


4>This is also a pie chart that is showing that maximum no of diabetes people is age of 80.



DIABETES STORY ELEMENTS

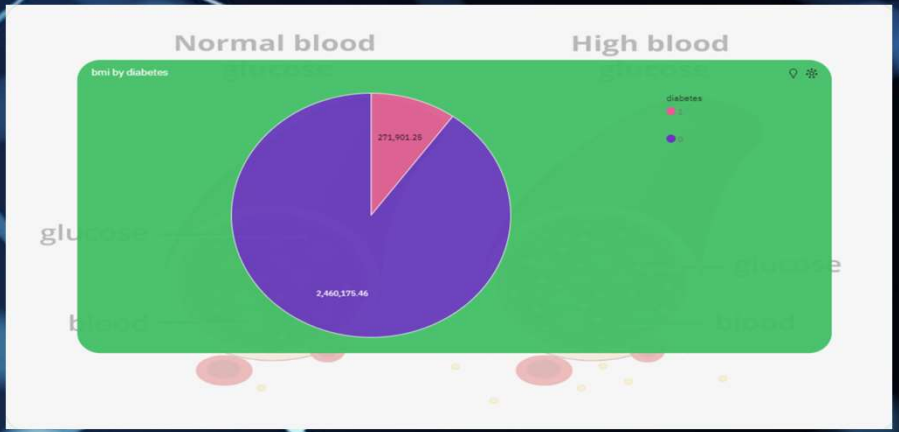
5>this is a graph of peoples having blood sugar and diabetes by smoking history which can tells us that smoking causes blood glucose level high, and diabetes is caused due to smoking history of people.



6>This is a pie chart showing the BMI and Diabetes by smoking history, which clearly states that is does not have any direct relation but affects a little on it.

DIABETES STORY ELEMENTS

7>This is a pie char showing that the BMI index is not that much related to the cause of diabetes, but somehow it is related to some extent.



8>this is a link of Youtube video added at the end of the video to make the story interesting and put a clear msg to everyone .

Summary

1.Demographic Distribution:

1. The dataset includes individuals of various genders and ages, with a range from children to older adults.
2. The majority of the dataset appears to be females, with a significant number in the 40-60 age range.

2.Health Conditions:

1. Hypertension and heart disease are present in some individuals, which are known risk factors for diabetes.
2. The prevalence of these conditions varies among individuals.

3.Smoking History:

1. The smoking history categories include "never," "former," "current," and "ever."
2. There's a need to understand how smoking history correlates with diabetes, as it is considered a risk factor.

4.BMI and Weight:

1. BMI values cover a wide range, indicating a diversity of body weights in the dataset.
2. BMI is an essential factor in assessing the risk of diabetes, and it should be investigated further.

5.Blood Glucose and HbA1c Levels:

1. Blood glucose and HbA1c levels vary among individuals.
2. High levels of these markers are associated with an increased risk of diabetes.

6.Diabetes Status:

1. The "Diabetes" column indicates whether an individual has diabetes (1) or not (0).
2. Understanding the factors influencing diabetes status is crucial for preventive measures and management

Thank You