

No-show appointments Report

My Dataset is : [No-show appointments](#)

Introduction:

My dataset collects information from 100k medical appointments in Brazil and is focused on the question of whether or not patients show up for their appointment. A number of characteristics about the patient are included in each row.

- 'ScheduledDay' tells us on what day the patient set up their appointment.
- 'Neighborhood' indicates the location of the hospital.
- 'Scholarship' indicates whether or not the patient is enrolled in Brazilian welfare program [Bolsa Família](#).
- Be careful about the encoding of the last column: it says 'No' if the patient showed up to their appointment, and 'Yes' if they did not show up.

1) Data Wrangling

In this section I've loaded the data ,described and explored my data ,check for cleanliness, and then trim and clean your dataset for analysis

2) Data Cleaning

In this section I have solved every problem faced me in data exploring and made my data clean and ready for exploring

3) Exploratory Data Analysis

I have answered these questions:

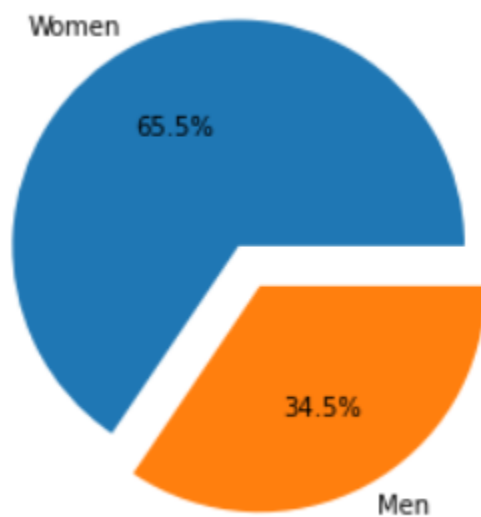
1. Which category goes to the doctor more, is it Men or women?
2. Who is more punctual, men or women?
3. what is the most frequent age go to the doctor?
4. What is the age group most affected by diabetes?
5. Range of schedule Day timestamp
6. Range of Appointment Day timestamp
7. the most visited Neighbourhood

4) Conclusions

In my analysis I found that:

- a) there is no null data or duplicated data or missing data but I found that there is age which is less than 1 year so I dropped rows with age less than or equal to zero
- b) Also I found that the most category goes to the doctor is woman

see the chart below for mor understanding



Char shows the most category goes to the doctor

c) More ever the most category that show up for their appointment is also woman

see the chart below for mor understanding

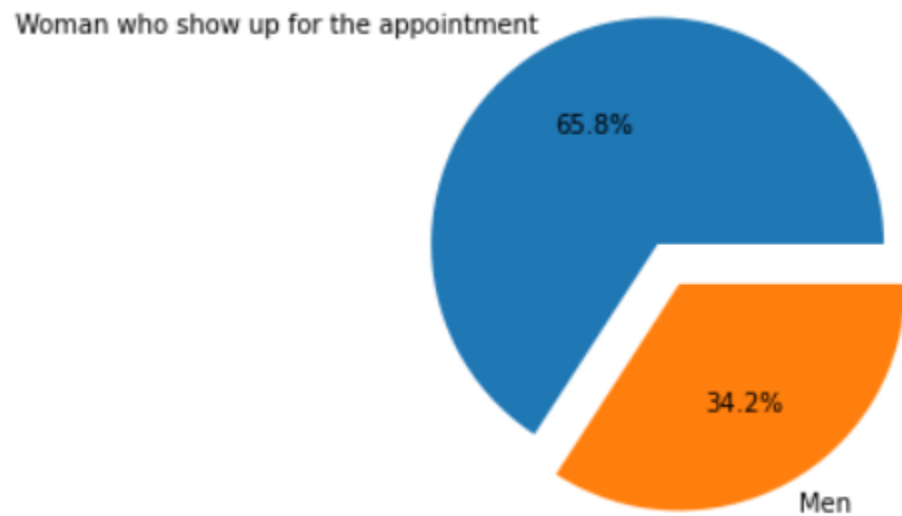


Chart show most category that show up for their appointment

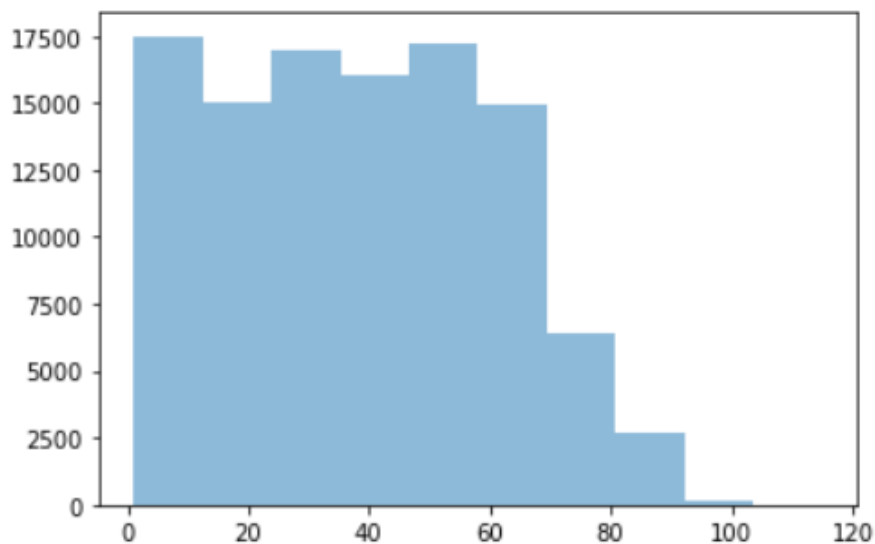
5) Limitation

a) The most frequent age go to the doctor is 1 year

see the chart below for mor understanding

the most frequent age is : 1

```
(array([1.7497e+04, 1.4989e+04, 1.6978e+04, 1.6042e+04, 1.7215e+04,  
       1.4969e+04, 6.4450e+03, 2.6960e+03, 1.5100e+02, 5.0000e+00]),  
 array([ 1. , 12.4, 23.8, 35.2, 46.6, 58. , 69.4, 80.8, 92.2,  
       103.6, 115. ]),  
<BarContainer object of 10 artists>)
```



Histogram shows the most frequent age go to the doctor

b) Also the age group most affected by diabetes is between 95:99

see the picture below for mor understanding

Diabetes	Age	
False	1	2272
	2	1617
	3	1513
	4	1298
	5	1489
		...
True	95	4
	96	2
	97	1
	98	2
	99	1

picture describes age groups affected by diabetes