**Statistical/Hypothetical Question:**  Can you predict if patients are going to show up for the medical appointment or not?

**Outcome of your EDA:** There was a strong relationship between few variables and few variables has a weak impact on the no show up. I did noticed an increase in number of days has impact on the no show.

**What do you feel was missed during the analysis?**  Since the data was gathered in brazil the scholarship field did not make any sense for US data predictions. Also the time of hour for the appointment was not provided, I think that will have a huge impact on the prediction if we have conducted the time series analysis on the data it might show new patterns and trends.

**Were there any variables you felt could have helped in the analysis?** The correlation analysis should have exposed the relationship between the variables. Also the probability helped me analysis the prediction model

**Were there any assumptions made you felt were incorrect?** From my initial analysis, I saw a relation between the gender, diabetes, hypertension, sms sent and no show variables. Later on, I noticed that there were many factors connected to the no show variable. Relying only on the gender, diabetes, hypertension, sms sent not give a picture of the data. Once I started adding the Day of the week it became much clear.

**What challenges did you face, what did you not fully understand?**  I did noticed after making the regression analysis and when I used the data to test back into the regression model. The prediction of the regression model is 100% I feel like there is something wrong with the model which I am running. When I only include the Age the prediction is showing 100% seems like the model which I ran is wrong.