No-Show Appointments Data Analysis

Questions:-

- 1. How Many F&M Who're Show Their appointment and who aren't ?
- 2. How Many F&M Who're in scholarship program and Show Their appointment and who aren't

Steps To Investigate My Questions:-

• prepare dataset to use

- 1. first import necessary packages (pandas,numpy,matplotlip).
- 2. load dataset.
- 3. get summary of the dataset and fount that there is no null value and there are some columns with wrong datatype(PatientId,ScheduledDay,AppointmentDay).
- 4. convert columns to their right datatype.
- 5. convert columns names to lower case and replace '-' with '_' to be much easier when accessing them .
- 6. Check for duplicated rows.
- 7. Check if there is wrong data inserted and found that there are negative values inserted for age .
- 8. View some statistical about data using describe function.

• Answer Questions:-

Question 1:-

- 1. create two variable
 one have the data which no_show == "No" (Show
 Appointment)
 and the second one for who didn't show (no_show ==
 "Yes")
- 2. for each variable in step (1) counted groupby gender
- 3. make a visulalization for step (2)
- 4. from visulization found that

- number of female is larger than number of male in both cases (showing & not showing).
- number of female who're showing their appointment is greater than who didn't show.
- number of male who're showing their appointment is greater than who didn't show.

Question 2:-

- 1. create two variable
 one have the data which no_show == "No" and
 scholarship == 1 (Show Appointment and in scholarship
 program)
 and the second one for who didn't show and didn't in
 scholarship program (no_show ==
 "Yes"&scholarship==0).
- 2. for each variable in step (1) counted groupby gender.
- 3. make a visulalization for step (2).
- 4. from visulization found that
 - number of female is larger than number of male in both cases .
 - number of female who're not in scholarship program and not showing their appointment is greater than who did.
 - number of male who're not in scholarship program and not showing their appointment is greater than who did.