Visualizing and Predicting Heart Diseases with an InteractiveDash Board

UNDERSTANDING THE DATASET

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DESCRIPTION:

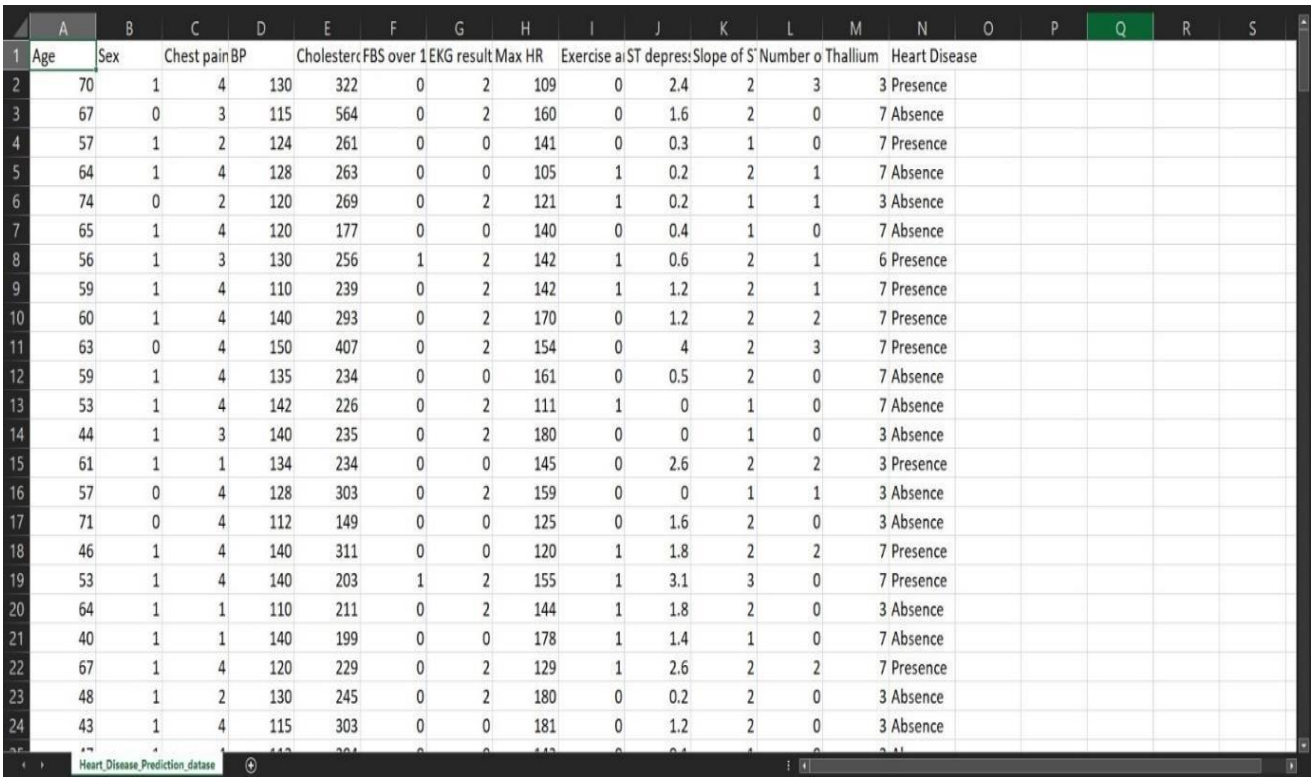
The leading cause of death in the developed world is heart disease. Therefore, there needs to be work done to help prevent the risks of having a heart attack or stroke. So, this project is based on to prediction of heart disease.

Here, we use this dataset to predict which patients are most likely to suffer from a heart disease in the near future using the features given: Dataset

Let's understand the data we're working with and give a brief overview of what each feature represents or should represent

COLUMN	DESCRIPTION
Age	Patient's age
Sex	Patient's sex
Chest pain	Number of times the chest pain has occurred
BP	Patient's Blood pressure
cholesterol	Patient's Cholesterol level
FBS over 120	Patient's fasting blood sugar level over 120
EKG results	Electrocardiogram result of the patient
Max HR	Patient's maximum heart rate level
Exercise angina	Pain in the chest because of exercise, stress…etc
ST depression	ST segment depression
Slope of ST	Slope of ST segment
Number of vessels fluro	To diagnose the vessels
Thallium	Thallium test is done for cardiac imaging studies
Heart Disease	Presence/Absence of heart disease

Heart Disease Excel Sheet:



Age	Sex	Chest pain	BP	Cholesterc	FBS over 1	EKG result	Max HR	Exercise ai	ST depres:	Slope of S	Number o	Thallium	Heart Disease
70	1	4	130	322	0	2	109	0	2.4	2	3	3	Presence
67	0	3	115	564	0	2	160	0	1.6	2	0	7	Absence
57	1	2	124	261	0	0	141	0	0.3	1	0	7	Presence
64	1	4	128	263	0	0	105	1	0.2	2	1	7	Absence
74	0	2	120	269	0	2	121	1	0.2	1	1	3	Absence
65	1	4	120	177	0	0	140	0	0.4	1	0	7	Absence
56	1	3	130	256	1	2	142	1	0.6	2	1	6	Presence
59	1	4	110	239	0	2	142	1	1.2	2	1	7	Presence
60	1	4	140	293	0	2	170	0	1.2	2	2	7	Presence
63	0	4	150	407	0	2	154	0	4	2	3	7	Presence
59	1	4	135	234	0	0	161	0	0.5	2	0	7	Absence
53	1	4	142	226	0	2	111	1	0	1	0	7	Absence
44	1	3	140	235	0	2	180	0	0	1	0	3	Absence
61	1	1	134	234	0	0	145	0	2.6	2	2	3	Presence
57	0	4	128	303	0	2	159	0	0	1	1	3	Absence
71	0	4	112	149	0	0	125	0	1.6	2	0	3	Absence
46	1	4	140	311	0	0	120	1	1.8	2	2	7	Presence
53	1	4	140	203	1	2	155	1	3.1	3	0	7	Presence
64	1	1	110	211	0	2	144	1	1.8	2	0	3	Absence
40	1	1	140	199	0	0	178	1	1.4	1	0	7	Absence
67	1	4	120	229	0	2	129	1	2.6	2	2	7	Presence
48	1	2	130	245	0	2	180	0	0.2	2	0	3	Absence
43	1	4	115	303	0	0	181	0	1.2	2	0	3	Absence

Heart_Disease_Prediction_datase