Visualizing and Predicting Heart Diseases with an Interactive Dash Board

UNDERSTANDING THE DATASET

Team ID: PNT2022TMID02520

DESCRIPTION:

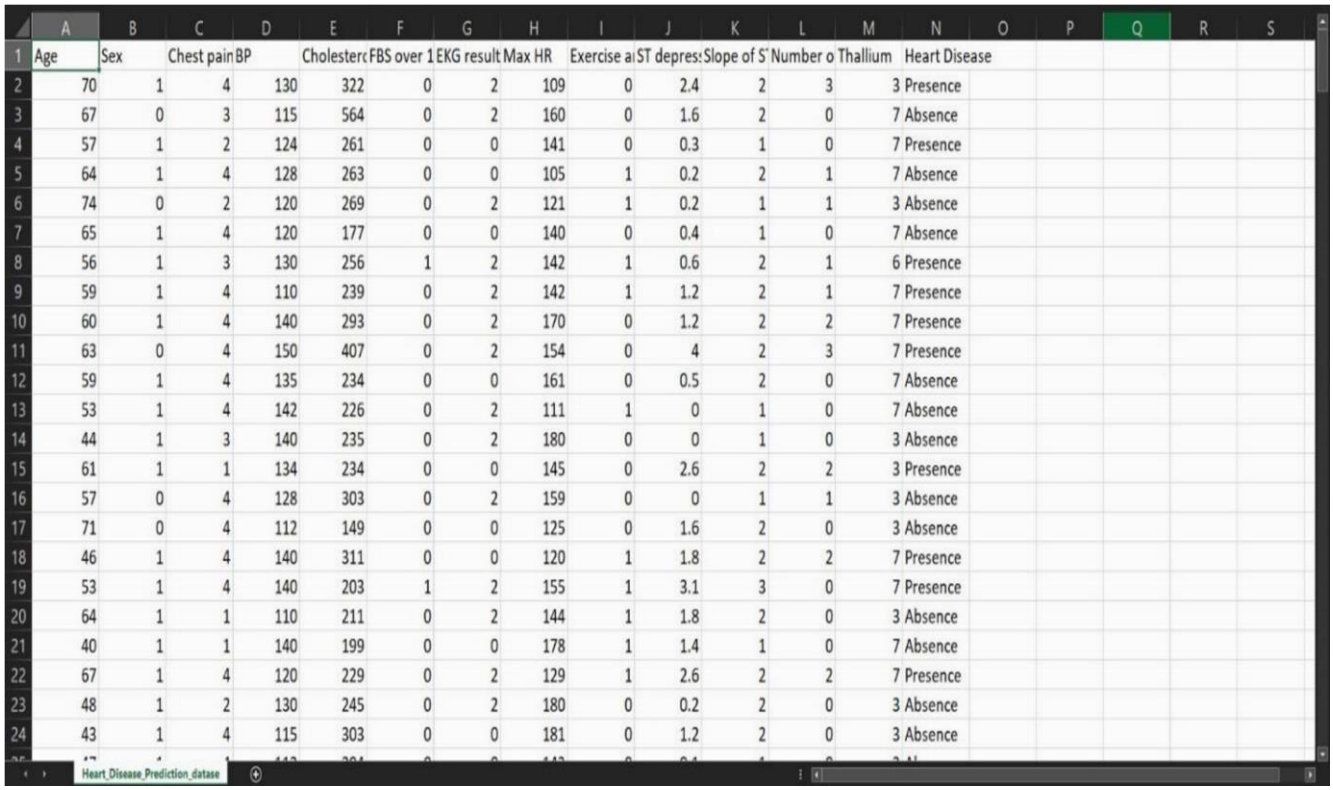
The leading cause of death in the developed world is heart disease. Therefore, there needs to be work done to help prevent the risks of having a heart attack or stroke. So, this project is based on to prediction of heart disease.

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:



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
1	Age	Sex	Chest pain	BP	Cholesterc	FBS over 1	EKG result	Max HR	Exercise a	ST depres	Slope of S	Number o	Thallium	Heart Disease					
2	70	1	4	130	322	0	2	109	0	2.4	2	3	3	Presence					
3	67	0	3	115	564	0	2	160	0	1.6	2	0	7	Absence					
4	57	1	2	124	261	0	0	141	0	0.3	1	0	7	Presence					
5	64	1	4	128	263	0	0	105	1	0.2	2	1	7	Absence					
6	74	0	2	120	269	0	2	121	1	0.2	1	1	3	Absence					
7	65	1	4	120	177	0	0	140	0	0.4	1	0	7	Absence					
8	56	1	3	130	256	1	2	142	1	0.6	2	1	6	Presence					
9	59	1	4	110	239	0	2	142	1	1.2	2	1	7	Presence					
10	60	1	4	140	293	0	2	170	0	1.2	2	2	7	Presence					
11	63	0	4	150	407	0	2	154	0	4	2	3	7	Presence					
12	59	1	4	135	234	0	0	161	0	0.5	2	0	7	Absence					
13	53	1	4	142	226	0	2	111	1	0	1	0	7	Absence					
14	44	1	3	140	235	0	2	180	0	0	1	0	3	Absence					
15	61	1	1	134	234	0	0	145	0	2.6	2	2	3	Presence					
16	57	0	4	128	303	0	2	159	0	0	1	1	3	Absence					
17	71	0	4	112	149	0	0	125	0	1.6	2	0	3	Absence					
18	46	1	4	140	311	0	0	120	1	1.8	2	2	7	Presence					
19	53	1	4	140	203	1	2	155	1	3.1	3	0	7	Presence					
20	64	1	1	110	211	0	2	144	1	1.8	2	0	3	Absence					
21	40	1	1	140	199	0	0	178	1	1.4	1	0	7	Absence					
22	67	1	4	120	229	0	2	129	1	2.6	2	2	7	Presence					
23	48	1	2	130	245	0	2	180	0	0.2	2	0	3	Absence					
24	43	1	4	115	303	0	0	181	0	1.2	2	0	3	Absence					

Heart_Disease_Prediction_datase