

# Working With Dataset

## Exploration Of Data

Team ID	PNT2022TMID04431
Project Name	Visualizing and Predicting Heart Diseases with an Interactive Dashboard

### Dataset Link:

<https://www.kaggle.com/datasets/rishidamarla/heart-disease-prediction>.

### About Dataset:

This is a kaggle dataset. It contains 14 fields. The goal of the dataset is to predict the presence of heart disease.

## Dataset Exploration:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	Age	Sex	Chest pain	BP	Cholesterol	FBS over 1	EKG result	Max HR	Exercise a	ST depress	Slope of ST	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	
25	47	1	4	112	204	0	0	143	0	0.1	1	0	3	Absence	
26	54	0	2	132	288	1	2	159	1	0	1	1	3	Absence	
27	48	0	3	130	275	0	0	139	0	0.2	1	0	3	Absence	
28	46	0	4	138	243	0	2	152	1	0	2	0	3	Absence	

- Dataset contains 270 rows and 14 columns.
- There are no missing values in the dataset.

## Explore data relationships

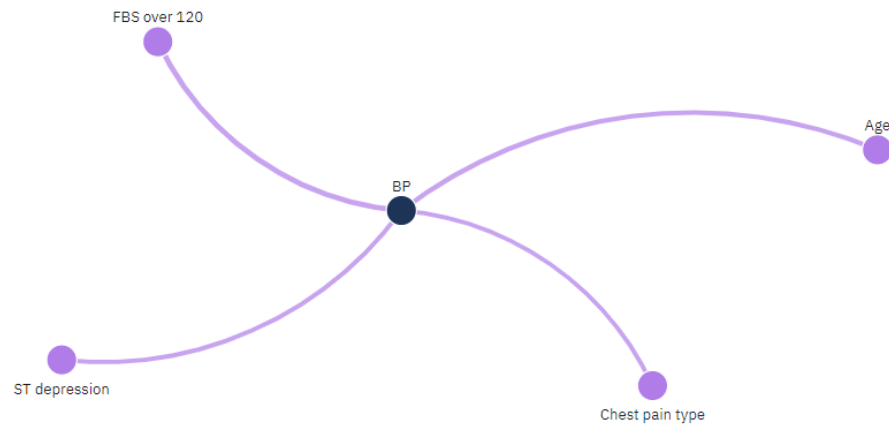
Heart\_Disease\_Prediction.csv

[Reset to original](#)

Q BP

×

Edit diagram ▾



Relationship diagram ⓘ

10% ●●————— 100%

1. BP is related to FBS over 120, ST depression, Chest Pain Type, Age over strength 10 % to 16 %

## Explore data relationships

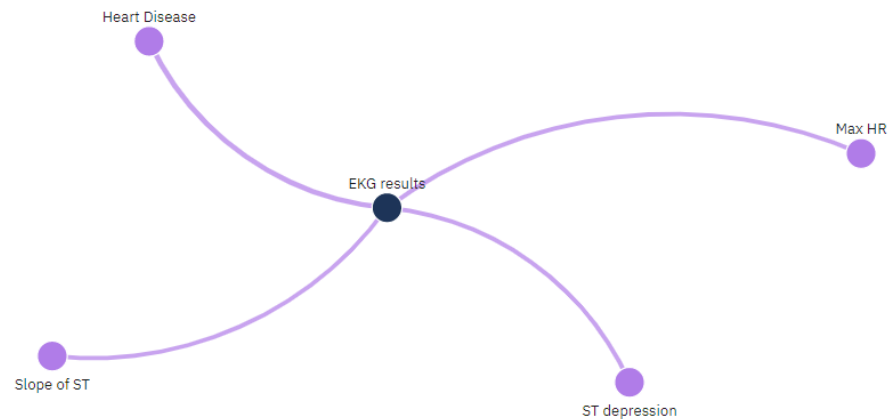
Heart\_Disease\_Prediction.csv

[Reset to original](#)

Q EKG results

×

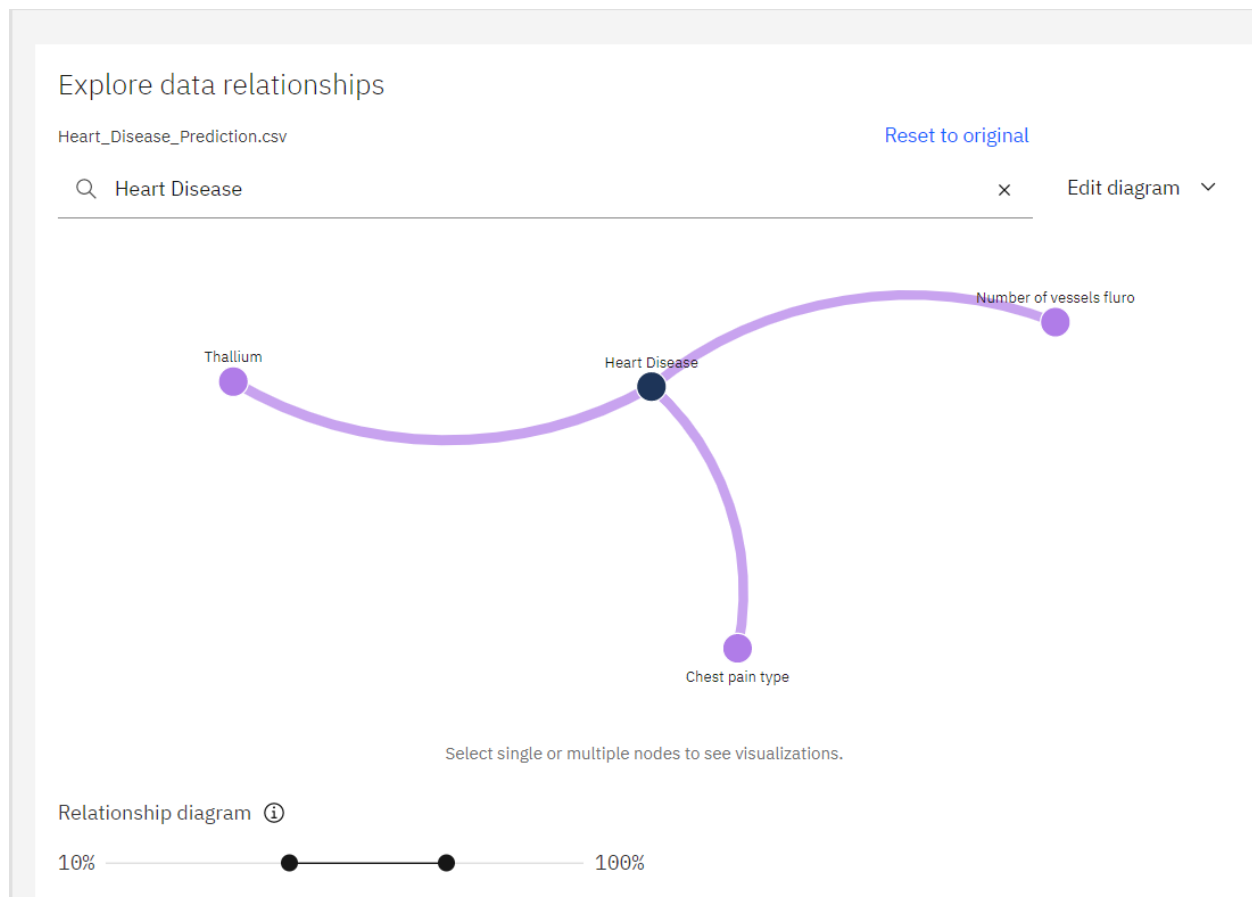
Edit diagram ▾



Relationship diagram ⓘ

10% ●●————— 100%

1. EKG results are related to Slope of ST, ST Depression, Max HR and Heart Disease.
2. As the values ST depression, Slope of ST and Max HR are calculated using EKG results, it is clear that the relationship diagram is correct.



1. For the relationship strength over 45% to 75%, Heart disease is highly related to Thallium, Chest Pain Type and Number of vessels fluoro.