

# Visualizing and Predicting Heart Diseases with an Interactive Dash Board

**Team ID:** PNT2022TMID14106

## **Understanding the Dataset:**

This database contains of 14 fields. The "goal" field refers to the presence of heart disease in the patient. It is integer valued from 0 (no presence) to 4.

The data dictionary is as follows:

1. Age
2. Sex
3. Chest pain type
4. BP
5. Cholesterol
6. FBS over 120
7. EKG Results
8. Max HR
9. Exercise angina
10. ST depression
11. Slope of ST
12. Number of vessels fluro
13. Thallium
14. Heart Disease

Reference:

The data can be downloaded from the following:

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

The screenshot shows a web browser window displaying the Kaggle dataset page for 'Heart Disease Prediction' by Rishidamarla. The browser's address bar shows the URL: [kaggle.com/datasets/rishidamarla/heart-disease-prediction](https://www.kaggle.com/datasets/rishidamarla/heart-disease-prediction). The page features a sidebar with navigation options: Create, Home, Competitions, Datasets, Code, Discussions, Learn, and More. The main content area includes a search bar, a description of the dataset ('Predicting probability of heart disease in patients.'), and tabs for Data, Code (15), and Discussion (0). The 'About Dataset' section provides context, content, and an acknowledgement. The 'Usability' section shows a score of 9.41. The 'License' section indicates 'CC0: Public Domain'. The 'Expected update frequency' is listed as 'Monthly'. The page also includes a 'View Active Events' link and a Windows taskbar at the bottom.

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kaggle.com/datasets/rishidamarla/heart-disease-prediction

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Predicting probability of heart disease in patients.

Data Code (15) Discussion (0)

### About Dataset

Context: 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 of having a heart attack or stroke.

Content: Use this dataset to predict which patients are most likely to suffer from a heart disease in the near future using the features given.

Acknowledgement: This data comes from the University of California Irvine's Machine Learning Repository at <https://archive.ics.uci.edu/ml/datasets/Heart+Disease>.

Usability 9.41

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Expected update frequency Monthly

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Health Conditions Heart Conditions

View Active Events

Type here to search

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### Heart Disease Prediction

Data Code (15) Discussion (0) 93 New Notebook Download (3 kB)

#### Heart\_Disease\_Prediction.csv (11.93 kB)

Detail Compact Column 10 of 14 columns

About this file

This dataset consists of features that can be used to predict which patients have a high risk of heart disease.

# Age	# Sex	# Chest pain type	# BP	# C
29	0	1	94	126
77	1	4	138	322
78	1	4	115	564
67	0	3	124	261
57	1	2	128	263
64	1	4	128	263

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Heart\_Disease\_Prediction [Read-Only] - Microsoft Excel

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
1	Age	Sex	Chest pain type	BP	Cholesterol	FBS over 120 mg/dL	EKG result	Max HR	Exercise induced angina	ST depression	Slope of ST depression	Number of major vessels	Older than 65	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							

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