

Working With the Dataset

Understanding the Dataset

Project Name	Visualizing and Predicting Heart Diseases with an Interactive Dash Board
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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 1.

The data dictionary is as follows:

Sno	Field Name
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 fluoro
13	Thallium
14	Heart Disease

The screenshot displays the IBM Cognos Analytics interface. The top navigation bar includes the logo, 'IBM Cognos Analytics with Watson', a 'New data module' dropdown, a search bar, and user profile icons. The main workspace is divided into a left sidebar and a central grid. The sidebar shows a 'Data module' section with a search bar and a list of fields: Age, Sex, Chest pain type, BP, Cholesterol, FBS over 120, EKG results, Max HR, Exercise angina, ST depression, Slope of ST, Number of vessels fluoro, and Thallium. The central grid displays a table with 8 columns: Age, Sex, Chest pain type, BP, Cholesterol, FBS over 120, EKG results, and Heart Disease. The table contains 14 rows of data, with the last row highlighted in grey.

Age	Sex	Chest pain type	BP	Cholesterol	FBS over 120	EKG results	Heart Disease
70	1	4	130	322	0	2	0
67	0	3	115	564	0	2	0
57	1	2	124	261	0	0	0
64	1	4	128	263	0	0	0
74	0	2	120	269	0	2	0
65	1	4	120	177	0	0	0
56	1	3	130	256	1	2	0
59	1	4	110	239	0	2	0
60	1	4	140	293	0	2	0
63	0	4	150	407	0	2	0
59	1	4	135	234	0	0	0
53	1	4	142	226	0	2	0
44	1	3	140	235	0	2	0
61	1	1	124	234	0	0	0

S. No.	Attribute	Description	Type
1	Age	Patient's age	Numerical
2	Sex	Gender of patient (male-0 female-1)	Nominal
3	Chest pain type	Chest pain type (Value 1- typical angina, Value 2-atypical angina, Value 3-non-anginal pain, Value 4-asymptomatic)	Nominal
4	BP	Resting blood pressure (in mm Hg, values from 94 from 200)	Numerical
5	Cholesterol	Serum cholesterol in mg/dl, values from 126 to 564)	Numerical
6	FBS over 120	Fasting blood sugar>120 mg/dl, true-1 false-0)	Nominal
7	EKG results	Resting electro cardio graphics result (0 to 2) Value 0: normal, Value 1: having ST-T wave abnormality, Value 2: showing probable or definite left ventricular hypertrophy	Nominal
8	Max HR	Maximum heart rate achieved (71 to 202)	Numerical
9	Exercise angina	Exercise included agina (1-yes 0-no)	Nominal
10	ST depression	ST depression introduced by exercise relative to rest (0 to 6.2)	Numerical
11	Slope of ST	The slop of the peak exercise ST segment (1 to 3) Value 1: upsloping , Value 2: flat, Value 3: downsloping	Nominal
12	Number of vessels fluro	Number of major vessels (0-3)	Numerical
13	Thallium	3 = normal; 6 = fixed defect; 7 = reversable defect	Nominal
14	Heart Disease	1 or 0	Nominal