PROJECT DEVELOPMENT PHASE

SPRINT 1

Date	30 October 2022
Team ID	PNT2022TMID53476
Project Name	Visualizing and Predicting Heart Diseases with
	an Interactive Dash Board

SOURCE CODE:

It is with the understanding of the given set if dataset and fetching the data and cleaning the data with the dataset.

These are the results for the dataset provided:

1. Heart Disease Prediction CSV file:

• To fetch the dataset

df=pd.read_csv("/content/sample_data/Heart_Disease_Prediction.csv")
df

To view the data

	Age	Sex	Chest pain type	BP	Cholesterol	FBS over 120	EKG results	Max HR	Exercise angina	ST depression	Slope of ST	Number of vessels fluro	Thallium	Heart Disease
0	70	1	4	130	322	0	2	109	0	2.4	2	3	3	Presence
1	67	0	3	115	564	0	2	160	0	1.6	2	0	7	Absence
2	57	1	2	124	261	0	0	141	0	0.3	1	0	7	Presence
3	64	1	4	128	263	0	0	105	1	0.2	2	1	7	Absence
4	74	0	2	120	269	0	2	121	1	0.2	1	1	3	Absence

265	52	1	3	172	199	1	0	162	0	0.5	1	0	7	Absence
266	44	1	2	120	263	0	0	173	0	0.0	1	0	7	Absence
267	56	0	2	140	294	0	2	153	0	1.3	2	0	3	Absence
268	57	1	4	140	192	0	0	148	0	0.4	2	0	6	Absence
269	67	1	4	160	286	0	2	108	1	1.5	2	3	3	Presence

270 rows × 14 columns

• To view the various datatypes of the respected columns given in the dataset

To describe the information of the dataset that is fetched.

df.desc	df.describe()												
	Age	Sex	Chest pain type	ВР	Cholesterol	FBS over	EKG results	Max HR	Exercise angina	ST depression	Slope of ST	Number of vessels fluro	Thallium
count	270.000000	270.000000	270.000000	270.000000	270.000000	270.000000	270.000000	270.000000	270.000000	270.00000	270.000000	270.000000	270.000000
mean	54.433333	0.677778	3.174074	131.344444	249.659259	0.148148	1.022222	149.677778	0.329630	1.05000	1.585185	0.670370	4.696296
std	9.109067	0.468195	0.950090	17.861608	51.686237	0.355906	0.997891	23.165717	0.470952	1.14521	0.614390	0.943896	1.940659
min	29.000000	0.000000	1.000000	94.000000	126.000000	0.000000	0.000000	71.000000	0.000000	0.00000	1.000000	0.000000	3.000000
25%	48.000000	0.000000	3.000000	120.000000	213.000000	0.000000	0.000000	133.000000	0.000000	0.00000	1.000000	0.000000	3.000000
50%	55.000000	1.000000	3.000000	130.000000	245.000000	0.000000	2.000000	153.500000	0.000000	0.80000	2.000000	0.000000	3.000000
75%	61.000000	1.000000	4.000000	140.000000	280.000000	0.000000	2.000000	166.000000	1.000000	1.60000	2.000000	1.000000	7.000000
max	77.000000	1.000000	4.000000	200.000000	564.000000	1.000000	2.000000	202.000000	1.000000	6.20000	3.000000	3.000000	7.000000

• To check the null values if present:

```
df.isnull().sum()
Age
                          0
Sex
                          0
Chest pain type
                          0
Cholesterol
                          0
FBS over 120
                          0
EKG results
                          0
Max HR
Exercise angina
ST depression
                         0
Slope of ST
                         0
Number of vessels fluro
Thallium
                          0
Heart Disease
dtype: int64
```