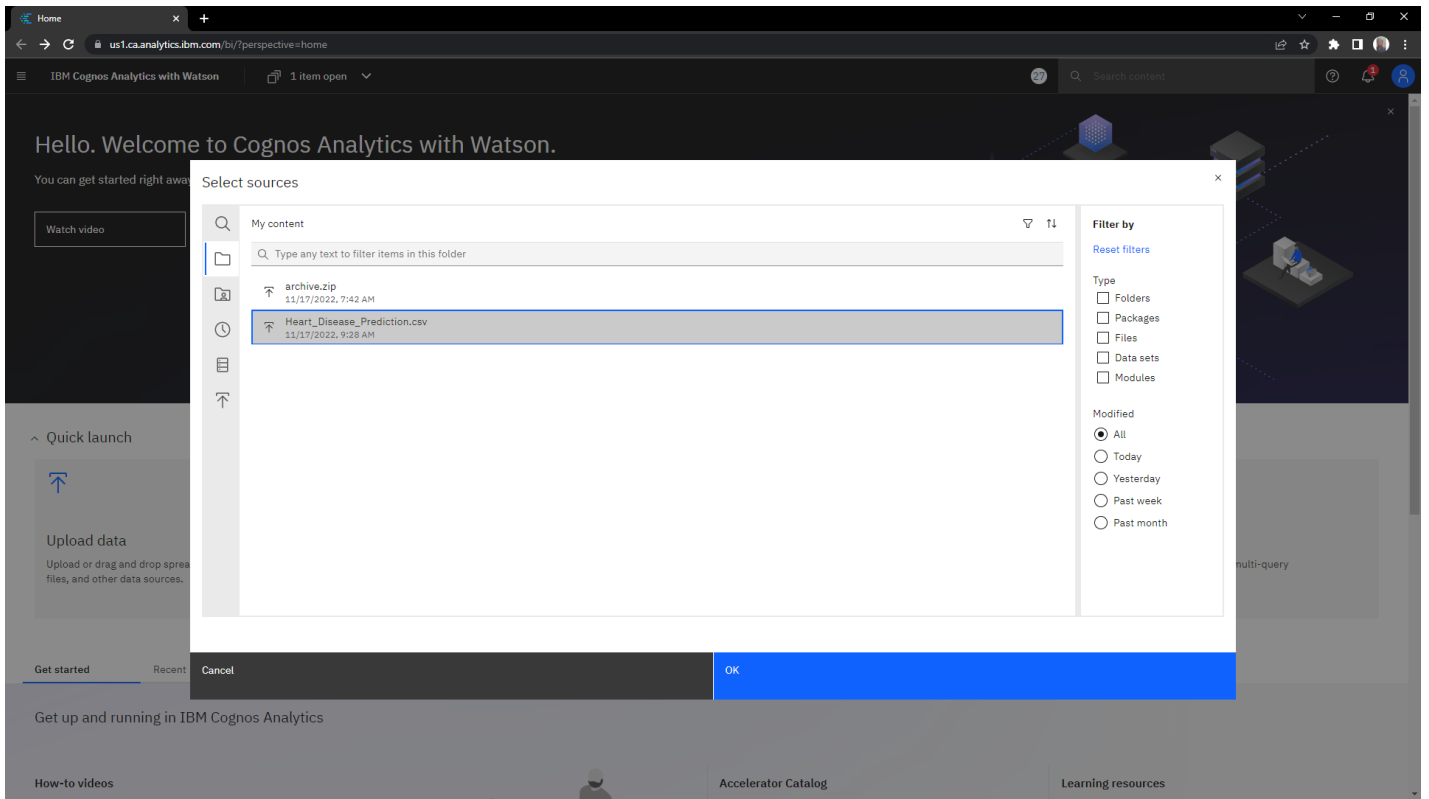


Sprint 1

Date	17 November 2022
Team ID	PNT2022TMID21090
Project Name	Visualizing and Predicting Heart Diseases with an Interactive Dashboard

Uploading the heart disease prediction dataset into IBM Cognos



The screenshot shows the IBM Cognos Analytics web interface. The 'New data module' page is displayed, showing a table with 20 rows of heart disease prediction data. The table columns are: Row Id, Age, Sex, Chest pain type, BP, Cholesterol, FBS over 120, EKG results, and Max HR. The data is sorted by Row Id in ascending order.

Row Id	Age	Sex	Chest pain type	BP	Cholesterol	FBS over 120	EKG results	Max HR
1	70	1	4	130	322	0	2	109
2	67	0	3	115	564	0	2	160
3	57	1	2	124	261	0	0	141
4	64	1	4	128	263	0	0	105
5	74	0	2	120	269	0	2	121
6	65	1	4	120	177	0	0	140
7	56	1	3	130	256	1	2	142
8	59	1	4	110	239	0	2	142
9	60	1	4	140	293	0	2	170
10	63	0	4	150	407	0	2	154
11	59	1	4	135	234	0	0	161
12	53	1	4	142	226	0	2	111
13	44	1	3	140	235	0	2	180
14	61	1	1	134	234	0	0	145
15	57	0	4	128	303	0	2	159
16	71	0	4	112	149	0	0	125
17	46	1	4	140	311	0	0	120
18	53	1	4	140	203	1	2	155
19	64	1	1	110	211	0	2	144
20	40	1	1	140	199	0	0	178

Data Cleaning:

Changing and replacing the null values:

The screenshot displays the IBM Cognos Analytics interface. On the left, the 'Data module' pane shows a list of fields: Row Id, Age, Sex, Chest pain type, BP, Cholesterol, FBS over 120, EKG results, Max HR, Exercise angina, ST depression, Slope of ST, Number of ...sels fluoro, and Thallium. The 'Chest pain type' field is selected. The main grid shows 20 rows of data. A dialog box titled 'Clean - Chest pain type' is open, showing the 'NULL values' section. The 'Replace NULL values with' checkbox is checked, and the value '4' is entered in the adjacent input field. The 'Clean' button is highlighted in blue.

Row Id	Age	Sex	Chest pain type	BP	Cholesterol	FBS over 120	EKG results	Max HR
1	70	1	4	130	322	0	2	109
2	67	0	3	115	564	0	2	160
3	57	1	2	124	261	0	0	141
4	64	1	4	128	263	0	0	105
5	74	0	2	120	269	0	2	121
6	65	1	4	120	177	0	0	140
7	56	1	3	130	256	1	2	142
8	59	1	4	110	239	0	2	142
9	60	1	4	140	293	0	2	170
10	63	0	4	150	407	0	2	154
11	59	1	4	135	234	0	0	161
12	53	1	4	142	226	0	2	111
13	44	1	3	140	235	0	2	180
14	61	1	1	134	234	0	0	145
15	57	0	4	128	303	0	2	159
16	71	0	4	112	149	0	0	125
17	46	1	4	140	311	0	0	120
18	53	1	4	140	203	1	2	155
19	64	1	1	110	211	0	2	144
20	40	1	1	140	199	0	0	178

IBM Cognos Analytics with Watson

New data module

Grid Relationships Custom tables

Search

Heart_Disea...diction.csv

Row Id

Age

Sex

Chest pain type

BP

Cholesterol

FBS over 120

EKG results

Max HR

Exercise angina

ST depression

Slope of ST

Number of ...sels fluoro

Thallium

Heart Disease

T1	P	Cholesterol	FBS over 120	EKG results	Max HR	Exercise angina	ST depression	Slope of ST	Number of vessels fluoro
30		322	0	2	109	0	2.4	2	3
15		564	0	2	160	0	1.6	2	0
24		261	0	0	141	0	0.3	1	0
28		263	0	0	105	1	0.2	2	1
20		269							
20		177				1	0.2	1	1
30		256				0	0.4	1	0
10		239				1	0.6	2	1
40		293				1	1.2	2	1
30		407				0	1.2	2	2
35		234				0	4	2	3
42		226				0	0.5	2	0
40		235	0	2	180	0	0	1	0
34		234	0	0	145	0	2.6	2	2
28		303	0	2	159	0	0	1	1
12		149	0	0	125	0	1.6	2	0
40		311	0	0	120	1	1.8	2	2
40		203	1	2	155	1	3.1	3	0
10		211	0	2	144	1	1.8	2	0
40		199	0	0	178	1	1.4	1	0

Clean - Number of vessels fluoro

NULL values

☐ Replace this value with NULL

☒ Replace NULL values with

0

0

Cancel Clean

IBM Cognos Analytics with Watson

New data module

Grid Relationships Custom tables

Search

Heart_Disea...diction.csv

Row Id

Age

Sex

Chest pain type

BP

Cholesterol

FBS over 120

EKG results

Max HR

Exercise angina

ST depression

Slope of ST

Number of ...sels fluoro

Thallium

Heart Disease

T1	BS over 120	EKG results	Max HR	Exercise angina	ST depression	Slope of ST	Number of vessels fluoro	Thallium	Heart Disease
	2	109	0	2.4	2	3	3	Presence	
	2	160	0	1.6	2	0	7	Absence	
	0	141	0	0.3	1	0	7	Presence	
	0	105	1	0.2	2	1	7	Absence	
	2	121	1	0.2	1	1	3	Absence	
	0	140	0	0.4	1	0	7	Absence	
	2	142	1	0.6	2	1	6	Presence	
	2	142	1	1.2	2	1	7	Presence	
	2	170	0	1.2	2	2	7	Presence	
	2	154	0	4	2	3	7	Presence	
	0	161	0	0.5	2	0	7	Absence	
	2	111	1	0	1	0	7	Absence	
	2	180	0	0	1	0	3	Absence	
	0	145	0	2.6	2	2	3	Presence	
	2	159	0	0	1	1	3	Absence	
	0	125	0	1.6	2	0	3	Absence	
	0	120	1	1.8	2	2	7	Presence	
	2	155	1	3.1	3	0	7	Presence	
	2	144	1	1.8	2	0	3	Absence	
	0	178	1	1.4	1	0	7	Absence	

Data Module:

New data module

us1.ca.analytics.ibm.com/ta/?perspective=ca-modeller&id=2878668387_d22c9f5ae6524a0388ae2e50a0f8f9b5_sessionTemp&objRef=8&tid=2878668387_d22c9f5ae6524a0388ae2e50a0f8f9b5_sessionTemp

IBM Cognos Analytics with Watson

New data module

Search content

Properties

Data module

Grid

Relationships

Custom tables

Search

New data module

Navigation paths

Heart_Disea...diction.csv

Row Id

Age

Sex

Chest pain type

BP

Cholesterol

FBS over 120

EKG results

Max HR

Exercise angina

ST depression

Slope of ST

Number of ...sels fluro

Thallium

Heart Disease

Absence

Presence

11	BS over 120	EKG results	Max HR	Exercise angina	ST depression	Slope of ST	Number of vessels fluro	Thallium	Heart Disease
	2	109	0	2.4	2	3	3	Presence	
	2	160	0	1.6	2	0	7	Absence	
	0	141	0	0.3	1	0	7	Presence	
	0	105	1	0.2	2	1	7	Absence	
	2	121	1	0.2	1	1	3	Absence	
	0	140	0	0.4	1	0	7	Absence	
	2	142	1	0.6	2	1	6	Presence	
	2	142	1	1.2	2	1	7	Presence	
	2	170	0	1.2	2	2	7	Presence	
	2	154	0	4	2	3	7	Presence	
	0	161	0	0.5	2	0	7	Absence	
	2	111	1	0	1	0	7	Absence	
	2	180	0	0	1	0	3	Absence	
	0	145	0	2.6	2	2	3	Presence	
	2	159	0	0	1	1	3	Absence	
	0	125	0	1.6	2	0	3	Absence	
	0	120	1	1.8	2	2	7	Presence	
	2	155	1	3.1	3	0	7	Presence	
	2	144	1	1.8	2	0	3	Absence	
	0	178	1	1.4	1	0	7	Absence	