

Sprint 1

Date	10 November 2022
Team ID	PNT2022TMID03384
Project Name	Visualizing and Predicting Heart Diseases with an Interactive Dashboard

Uploading Heart disease Prediction Dataset Using Cognos Analysis: USN-1:

- As a user, I can gather the details of the patients and store the data set.
- Uploading the dataset of heart_disease_prediction.csv file to IBM Cognos Analytic

The screenshot shows the IBM Cognos Analytics web interface. The browser address bar displays 'us3.ca.analytics.ibm.com/bi/?perspective=content'. The page header includes the 'IBM Cognos Analytics with Watson' logo, a 'Content' dropdown menu, a search bar, and user profile icons. The main section is titled 'Content' and features tabs for 'My content', 'Team content', and 'Samples'. A 'New +' button is located in the top right corner. Below the tabs, a table lists various content items. The table has columns for 'Name', 'Type', and 'Last Accessed'. The items listed are:

Name	Type	Last Accessed
Heart Disease Dashboard 01	Dashboard	10/15/2022, 12:09 PM
Heart Disease data prep	Data module	10/15/2022, 1:48 AM
Heart_Disease_Prediction (1).csv	Uploaded file	10/15/2022, 1:44 AM
Pharma_Monthly_Sales data prep	Data module	10/14/2022, 5:20 AM
Pharma_Monthly_Sales.csv	Uploaded file	10/14/2022, 5:11 AM
Visualizind and Heart_Disease_Prediction.csv	Uploaded file	11/10/2022, 9:31 AM

The 'Heart_Disease_Prediction (1).csv' and 'Pharma_Monthly_Sales.csv' items are marked with a 'CSV' label. The interface also includes a 'Visualize' button and a 'New +' button in the top right corner.

Data Cleaning and Data Processing using Cognos Analytics: USN-2:

us3.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=3019265856_e627d11108fa49d5ae6adccdc8e861c_sessionTemp&objRef=&tid=3019265856_e627d11108fa49d5ae6adcca...

IBM Cognos Analytics with Watson | * New data module

Maintenance: Scheduled maintenance completed. Click More Info for details and to subscribe to future events

Grid Relationships Custom tables

Row Id

Clean - Chest pain type

NULL values

☐ Replace this value with NULL 0

☒ Replace NULL values with 4

Cancel Clean

Row Id	BP	Cholesterol	FBS over 120
1	130	322	0
2	115	564	0
3	124	261	0
4	128	263	0
5	120	269	0
6	120	177	0
7	130	256	1
8	59	1	4
9	60	1	4
10	63	0	4
11	59	1	4

The screenshot displays the IBM Cognos Analytics interface. The top navigation bar shows the application name and a search bar. The main content area is divided into a left sidebar and a central table view. The sidebar, titled 'Data module', lists the contents of the 'Visualizing...ction.csv' file, including 'Row Id', 'Age', 'Sex', 'Chest pain type', 'BP', 'Cholesterol', 'FBS over 120', 'EKG results', 'Max HR', 'Exercise angina', 'ST depression', 'Slope of ST', and 'Number of...ls fluoro'. The 'Chest pain type' item is currently selected. The central table view shows 12 rows of data. The columns are 'Row Id', 'Age', 'Sex', 'Chest pain type', 'BP', 'Cholesterol', and 'FBS over 120'. The 'Chest pain type' column is highlighted in blue. The table data is as follows:

Row Id	Age	Sex	Chest pain type	BP	Cholesterol	FBS over 120
1	70	1	4	130	322	0
2	67	0	3	115	564	0
3	57	1	2	124	261	0
4	64	1	4	128	263	0
5	74	0	2	120	269	0
6	65	1	4	120	177	0
7	56	1	3	130	256	1
8	59	1	4	110	239	0
9	60	1	4	140	293	0
10	63	0	4	150	407	0
11	59	1	4	135	234	0
12	53	1	4	142	226	0

us3.ca.analytics.ibm.com/bl/?perspective=ca-modeller&id=3019265856_e627d11108fa49d5ae6adccadc8e861c_sessionTemp&objRef=&tid=3019265856_e627d11108fa49d5ae6adcca...

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Data module

Grid Relationships Custom tables

Search

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...ls fluro

Thallium

Heart Disease

Clean - Number of vessels fluro

NULL values

☐ Replace this value with NULL

☒ Replace NULL values with

0

0

Cancel Clean

	Exercise angina	ST depression	Slope of ST	Number of vessels fluro	Thallium	Heart Disease
0				3	3	Presence
0				0	7	Absence
0				0	7	Presence
1				1	7	Absence
1				1	3	Absence
0				0	7	Absence
1				1	6	Presence
1	1.2	2		1	7	Presence
0	1.2	2		2	7	Presence
0	4	2		3	7	Presence
0	0.5	2		0	7	Absence

Activate Windows

us3.ca.analytics.ibm.com/bl/?perspective=ca-modeller&id=3019265856_e627d11108fa49d5ae6adccadc8e861c_sessionTemp&objRef=&tid=3019265856_e627d11108fa49d5ae6adcca...

IBM Cognos Analytics with Watson

Maintenance: Scheduled maintenance completed. Click More Info for details and to subscribe to future events

Data module

Grid Relationships Custom tables

Search

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...ls fluro

Thallium

Heart Disease

	Exercise angina	ST depression	Slope of ST	Number of vessels fluro	Thallium	Heart Disease
0		2.4	2	3	3	Presence
0		1.6	2	0	7	Absence
0		0.3	1	0	7	Presence
1		0.2	2	1	7	Absence
1		0.2	1	1	3	Absence
0		0.4	1	0	7	Absence
1		0.6	2	1	6	Presence
1	1.2	2		1	7	Presence
0	1.2	2		2	7	Presence
0	4	2		3	7	Presence
0	0.5	2		0	7	Absence

Activate Windows

Creating The Data Module using Cognos Analytics: USN-3:

us3.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=3019265856_e627d11108fa49d5ae6adccadc8e861c_sessionTemp&objRef=&tid=3019265856_e627d11108fa49d5ae6adcca...IBM Cognos Analytics with WatsonNew data module33Search contentProperties

Data moduleVisualizind...iction.csv# Row IdAgeSexChest pain typeBPCholesterolFBS over 120EKG resultsMax HRExercise anginaST depressionSlope of STNumber of...ls fluroThalliumHeart Disease

	Exercise angina	ST depression	Slope of ST	Number of vessels fluro	Thallium	Heart Disease
	0	2.4	2	3	3	Presence
	0	1.6	2	0	7	Absence
	0	0.3	1	0	7	Presence
	1	0.2	2	1	7	Absence
	1	0.2	1	1	3	Absence
	0	0.4	1	0	7	Absence
	1	0.6	2	1	6	Presence
	1	1.2	2	1	7	Presence
	0	1.2	2	2	7	Presence
	0	4	2	3	7	Presence
	0	0.5	2	0	7	Absence
	1	0	1	0	7	Absence

