

# Project Development Phase

## Delivery of Sprint-1

Team ID	PNT2022TMID21063
Project Name	Analytics for Hospitals' Health-Care Data

### Project Development Phase:

#### Sprint-1:

**Data Collection:** Download the Dataset Dataset link

[https://drive.google.com/drive/folders/1qozDgfVw04hGS8Di\\_SFhUNdUKUdjkhT?usp=sharing](https://drive.google.com/drive/folders/1qozDgfVw04hGS8Di_SFhUNdUKUdjkhT?usp=sharing)

#### Load the Dataset:

##### Sprint-1:

- Data Collection
- Data Preparation

##### Sprint-2:

- Data Exploration

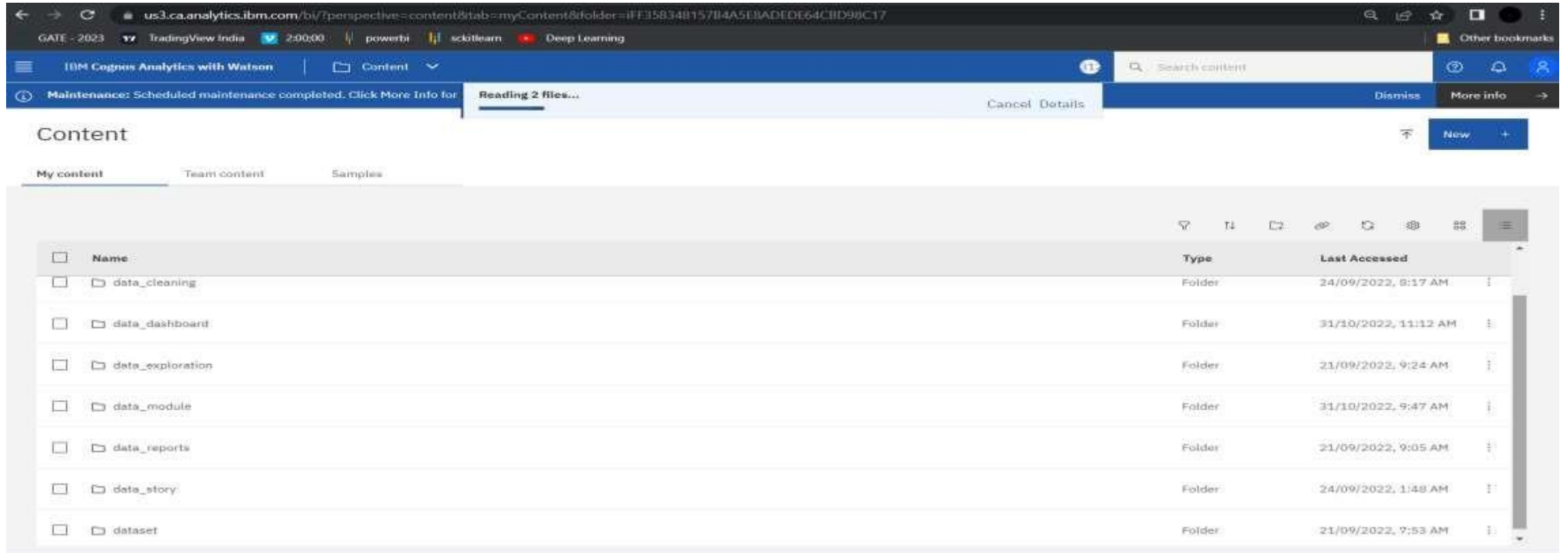
##### Sprint-3:

- DashboardCreation

##### Sprint-4:

- Report Creation
- Story Creation

# Tool used: IBM Cognos Analytics



The screenshot shows the IBM Cognos Analytics web interface. The browser address bar displays the URL: `us3.ca.analytics.ibm.com/bi/?perspective=content&tab=myContent&folder=IFF35B34B157B4A5EBAD98C17`. The page header includes the text "IBM Cognos Analytics with Watson" and a "Content" dropdown menu. A notification banner at the top states: "Maintenance: Scheduled maintenance completed. Click More Info for". A progress bar indicates "Reading 2 files..." with "Cancel" and "Details" buttons. The main content area is titled "Content" and features tabs for "My content", "Team content", and "Samples". Below the tabs is a table listing folders:

Name	Type	Last Accessed
data_cleaning	Folder	24/09/2022, 8:17 AM
data_dashboard	Folder	31/10/2022, 11:12 AM
data_exploration	Folder	21/09/2022, 9:24 AM
data_module	Folder	31/10/2022, 9:47 AM
data_reports	Folder	21/09/2022, 9:05 AM
data_story	Folder	24/09/2022, 1:48 AM
dataset	Folder	21/09/2022, 7:53 AM

**Data Preparation:**  
Prepare the Dataset

IBM Cognos Analytics with Watson

hospital\_care\_data

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Search content

?

Properties

Data module

+

Search

hospital\_care\_data

Navigation paths

+

train\_data.csv

test\_data.csv

Grid

Relationships

Custom tables

	Row Id	case_id	Hospital_code	Hospital_type_code	City_Code_Hospital	Hospital_region_code	Available E...in Hospital	Department
1	1	1	8	c	3	Z	3	radiotherapy
2	2	2	2	c	5	Z	2	radiotherapy
3	3	3	10	e	1	X	2	anesthesia
4	4	4	26	b	2	Y	2	radiotherapy
5	5	5	26	b	2	Y	2	radiotherapy
6	6	6	23	a	6	X	2	anesthesia
7	7	7	32	f	9	Y	1	radiotherapy
8	8	8	23	a	6	X	4	radiotherapy
9	9	9	1	d	10	Y	2	gynecology
10	10	10	10	e	1	X	2	gynecology
11	11	11	22	g	9	Y	2	radiotherapy
12	12	12	26	b	2	Y	4	radiotherapy
13	13	13	16	c	3	Z	2	radiotherapy
14	14	14	9	d	5	Z	3	radiotherapy
15	15	15	6	a	6	X	4	gynecology
16	16	16	6	a	6	X	3	gynecology

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hospital\_care\_data

612

Search content

?

🔔

👤

Edit calculation

Name

City\_Code\_Patient

Components

Expression

🔍 Search

between

case

contains

currentMeasure

default

distinct

else

end

ends with

escape

for

for all

for any

1 IF ( City\_Code\_Patient is missing )

2 THEN ( median (City\_Code\_Patient ))

3 ELSE ( City\_Code\_Patient )

Validation Results

✅ The expression is valid.

Cancel

OK

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hospital\_care\_data

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Search content

?

🔔

👤

Edit calculation

NameBed Grade

Components

Expression

🔍 Search

▶ Operators

▶ Summaries

▶ Constants

▼ Constructs

# if then else

# in\_range

# search case

# simple case

▶ Business Data Functions

▶ Period Predicates

▶ Vendor Specific Functions

▶ Common Functions

▶ Macro Functions

1 IF ( Bed\_Grade is missing)

2 THEN (median (Bed\_Grade))

3 ELSE(Bed\_Grade )

Validate

Validation Results

🟢 The expression is valid.

Cancel

OK



Properties



Data module



Search

- train\_data.csv
  - # Row Id
  - # case\_id
  - # Hospital\_code
  - abc Hospital...pe\_code
  - City\_Cod...Hospital
  - Hospital...ion\_code
  - Available...Hospital
  - abc Department
  - abc Ward\_Type
  - abc Ward\_Fa...ty\_Code
  - Bed Grade
  - patientid
  - City\_Code\_Patient
  - abc Type of Admission
  - abc Severity of Illness
  - Visitors ...h Patient
  - abc Age
  - Admissio...Deposit
  - abc Stay
- test\_data.csv

Grid

Relationships

Custom tables

ent	Ward_Type	Ward_Facility_Code	Bed Grade	patientid	City_Code_Patient	Type of Admission	Severity of Illness	Vis
apy	R	F	2	31397	7	Emergency	Extreme	
apy	S	F	2	31397	7	Trauma	Extreme	
ia	S	E	2	31397	7	Trauma	Extreme	
apy	R	D	2	31397	7	Trauma	Extreme	
apy	S	D	2	31397	7	Trauma	Extreme	
ia	S	F	2	31397	7	Trauma	Extreme	
apy	S	B	3	31397	7	Emergency	Extreme	
apy	Q	F	3	31397	7	Trauma	Extreme	
zy	R	B	4	31397	7	Trauma	Extreme	
zy	S	E	3	31397	7	Trauma	Extreme	
apy	S	B	2	31397	7	Urgent	Extreme	
apy	R	D	1	31397	7	Urgent	Extreme	
apy	R	A	3	31397	7	Emergency	Extreme	
apy	S	F	3	31397	7	Urgent	Extreme	
zy	Q	F	3	63418	8	Emergency	Extreme	
zy	Q	F	3	63418	8	Emergency	Extreme	

## **Hospital Data :**





Data ...dule

Search

tr...sv

# R...

# C...

# H...

abc H...

C...

H...

A...

abc D...

abc ...

abc ...

B...

p...

C...

abc T...

abc S...

V...

abc Age

A...

abc Sta

te...sv

Grid	Relationships	Custom tables						
Grade	patientid	City_Code_Patient	Type of Admission	Severity of Illness	Visitors with Patient	Age	Admission_Deposit	Stay
	31397	7	Emergency	Extreme	2	51-60	4911	0-10
	31397	7	Trauma	Extreme	2	51-60	5954	41-50
	31397	7	Trauma	Extreme	2	51-60	4745	31-40
	31397	7	Trauma	Extreme	2	51-60	7272	41-50
	31397	7	Trauma	Extreme	2	51-60	5558	41-50
	31397	7	Trauma	Extreme	2	51-60	4449	11-20
	31397	7	Emergency	Extreme	2	51-60	6167	0-10
	31397	7	Trauma	Extreme	2	51-60	5571	41-50
	31397	7	Trauma	Extreme	2	51-60	7223	51-60
	31397	7	Trauma	Extreme	2	51-60	6056	31-40
	31397	7	Urgent	Extreme	2	51-60	5797	21-30
	31397	7	Urgent	Extreme	2	51-60	5993	11-20
	31397	7	Emergency	Extreme	2	51-60	5141	0-10
	31397	7	Urgent	Extreme	2	51-60	8477	21-30
	63418	8	Emergency	Extreme	2	71-80	2685	0-10
	63418	8	Emergency	Extreme	2	71-80	9398	0-10

**Prepared data link :**

<https://us1.ca.analytics.ibm.com/bi/?perspective=da>



shboard&pathRef=.my\_folders%2FProject%2FA&action=view&mode=dashboard