

Project Development Phase

Delivery of Sprint-1

Date	29 OCT 2022
TeamID	PNT2022TMID38968
ProjectName	Analytics for Hospitals' Health-Care Data

Project Development Phase:

Sprint-1:

- Data Collection
- Data Preparation

Sprint-2:

- Data Exploration

Sprint-3:

- DashboardCreation

Sprint-4:

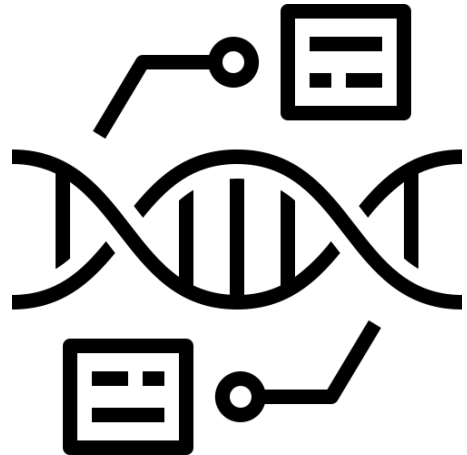
- Report Creation
- Story Creation

Analytics For Hospital and Health-Care Data

TEAM ID: PNT2022TMID18216

TeamMembers

- Selvakuma *
- Swetha
- Aa hish
- athnava ma



Sprint-1:

Data Collection: Download the Dataset Dataset link :



https://drive.google.com/drive/folders/1qozDgfVw04hGS8Di_SFhUNdUKUdjkhT?usp=sharing

g Load the Dataset:

Toolused: IBM Cognos Analytics

IBM Cognos Analytics with Watson

Content

31

Search content

?

🔔

👤

ⓘ Maintenance: Scheduled maintenance completed. Click More Info for

Reading 2 files...

Cancel

Details

Dismiss

More info →

Content

↑

New +

My content

Team content

Samples

🔍

↕

📁

🔗

🔄

⚙️

📊

☰

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

Data Preparation:

PreparetheDataset

IBM Cognos Analytics with Watson

hospital_care_data

312

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	8	c	3	Z	3	radiotherapy
	2	2	2	c	5	Z	2	radiotherapy
	3	3	10	e	1	X	2	anesthesia
	4	4	26	b	2	Y	2	radiotherapy
	5	5	26	b	2	Y	2	radiotherapy
	6	6	23	a	6	X	2	anesthesia
	7	7	32	f	9	Y	1	radiotherapy
	8	8	23	a	6	X	4	radiotherapy
	9	9	1	d	10	Y	2	gynecology
	10	10	10	e	1	X	2	gynecology
	11	11	22	g	9	Y	2	radiotherapy
	12	12	26	b	2	Y	4	radiotherapy
	13	13	16	c	3	Z	2	radiotherapy
	14	14	9	d	5	Z	3	radiotherapy
	15	15	6	a	6	X	4	gynecology
	16	16	6	a	6	X	3	gynecology

Null Values Cleaning Process :



Edit calculation



Name City_Code_Patient

Components

Expression



24



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

IBM Cognos Analytics with Watson

hospital_care_data

312

Search content

?

🔔

👤

Edit calculation

NameBed Grade

Components

Expression

🔍 Search

▶ Operators

▶ Summaries

▶ Constants

▼ Constructs

if then else

in_range

search case

simple case

▶ Business Dat...e 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

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	
gy	R	B	4	31397	7	Trauma	Extreme	
gy	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	
gy	Q	F	3	63418	8	Emergency	Extreme	
gy	Q	F	3	63418	8	Emergency	Extreme	

Hospital Data :

IBM Cognos Analytics with Watson

hospital_care_data

31

Search content

?

🔔

👤

📁

▼

🔗

↶

↷

📄

🔍

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

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

[illegible]

Prepared data link :

<https://us3.ca.analytics.ibm.com/bi/?perspective=camodeller&pathR>



ef=.my_folders%2Fdata_module%2F hospital_care_data