

Project Development Phase

Delivery of Sprint-1

Date	3 NOV 2022
Team ID	PNT2022TMID20415
Project Name	Analytics for Hospitals' Health-Care Data

Project Development Phase:

Sprint-1:

- Data Collection
- Data Preparation

Sprint-2:

- Data Exploration

Sprint-3:

- Dashboard Creation

Sprint-4:

- Report Creation
- Story Creation

TEAM ID : PNT2022TMID20415

Sprint-1:

Data Collection: Download the Dataset Dataset link :

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

Dataset:

Tool used: IBM Cognos Analytics

Data Preparation:

Prepare the Dataset

IBM Cognos Analytics with Watson		hospital_care_data		31	Search content		?	🔔	👤
								Properties	
Data module		Grid		Relationships		Custom tables			
Search		Row Id		case_id		Hospital_code		Hospital_type_code	
hospital_care_data		1		1		8		c	
Navigation paths		2		2		2		c	
train_data.csv		3		3		10		e	
test_data.csv		4		4		26		b	
		5		5		26		b	
		6		6		23		a	
		7		7		32		f	
		8		8		23		a	
		9		9		1		d	
		10		10		10		e	
		11		11		22		g	
		12		12		26		b	
		13		13		16		c	
		14		14		9		d	
		15		15		6		a	
		16		16		6		a	

Null Values Cleaning Process :

Classes

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IBM Cognos Analytics with Watson

* sprint1

Edit calculation

NameC_CITY_CODE_PATIENT

Components

Search

sprint1

C_CITY_C...PATIENT

CITY_COD...PATIENT

train_data.csv

test_data.csv

Expression

1 IF (test_data_csv.Bed_Grade is missing)

2 THEN (median (test_data_csv.Bed_Grade))

3 ELSE (test_data_csv.Bed_Grade)

Validation Results

The expression is valid.

Calculate after aggregation

Cancel

OK

24°C Cloudy

ENG IN

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Classes

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IBM Cognos Analytics with Watson sprint1

Edit calculation

Name Calculation name

Components

Search

sprint1

Calculation name

CITY_COD...PATIENT

train_data.csv

test_data.csv

Expression

1 IF (test_data_csv.Bed_Grade is missing)
2 THEN (median (test_data_csv.Bed_Grade))
3 ELSE(test_data_csv.Bed_Grade)

Information

☒ Calculate after aggregation

Chat

Cancel

OK

24°C Cloudy

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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 module

Search

train_data.csv

Row Id

case_id

Hospital_code

Hospital...pe_code

City_Cod...Hospital

Hospital...ion_code

Available...Hospital

Department

Ward_Type

Ward_Fa...ty_Code

Bed Grade

patientid

City_Code_Patient

Type of Admission

Severity of Illness

Visitors ...h Patient

Age

Admissio...Deposit

Stay

test_data.csv

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

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

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=ca-modeller&pathRef=.my_folders%2Fsprint1