

Sprint Delivery Plan I

Date	11 November 2022
Team ID	PNT2022TMID43179
Project Name	Analytics for Hospital's Health CareData

Importing Data Sets of Analytics for Hospitals Health Care Data Using Cognos Analysis:

USN-1:

- As a User I can enter the details of the patients working in our organization of the details.
- Uploading the dataset of test_data.csv and train_data.csv file to IBM Cognos Analytics.

The screenshot displays the IBM Cognos Analytics user interface. At the top, the header bar includes the text 'IBM Cognos Analytics with Watson', a 'Content' dropdown menu, a search bar with the placeholder 'Search content', and user profile icons. Below the header, the main content area is titled 'Hospitals health care'. Underneath this title, there are tabs for 'My content', 'Team content', and 'Samples'. The 'My content' tab is selected, showing a breadcrumb path 'My content / Hospitals health care'. A table of content items is displayed with columns for 'Name', 'Type', and 'Last Accessed'. The table lists three items: 'Test_data module' (Data module), 'test_data.csv' (Uploaded file), and 'train_data.csv' (Uploaded file). Each item has a checkbox on the left and a vertical ellipsis on the right. The 'test_data.csv' and 'train_data.csv' items are marked with a 'CSV' tag.

Name	Type	Last Accessed
<input type="checkbox"/> Test_data module	Data module	30/10/2022, 8:59 AM
<input type="checkbox"/> test_data.csv CSV	Uploaded file	30/10/2022, 3:39 AM
<input type="checkbox"/> train_data.csv CSV	Uploaded file	30/10/2022, 3:12 AM

IBM Cognos Analytics with Watson

Content

31

Search content

?

1

Hospitals health care

My contentTeam contentSamples

My content / Hospitals health care

Name

Type

Last Accessed

train_data.csv

CSV

Uploaded file

30/10/2022, 3:12 AM

IBM Cognos Analytics with Watson

New data module

31

Search content

?

1

Properties

Data module

Search

New data module

Navigation paths

train_data.csv

Row Id

case_id

Hospital_code

abc Hospital...ype_code

City_Code_Hospital

Hospital...ion_code

Available...Hospital

abc Department

abc Ward_Type

abc Ward_Facility_Code

Grid

Relationships

Custom tables

case_id

Hospital_code

Hospital_type_code

City_Code_Hospital

Hospital_region_code

Av

1

8

c

3

Z

3

2

2

c

5

Z

2

3

10

e

1

X

2

4

26

b

2

Y

2

5

26

b

2

Y

2

6

23

a

6

X

2

7

32

f

9

Y

1

8

23

a

6

X

4

9

1

d

10

Y

2

10

10

e

1

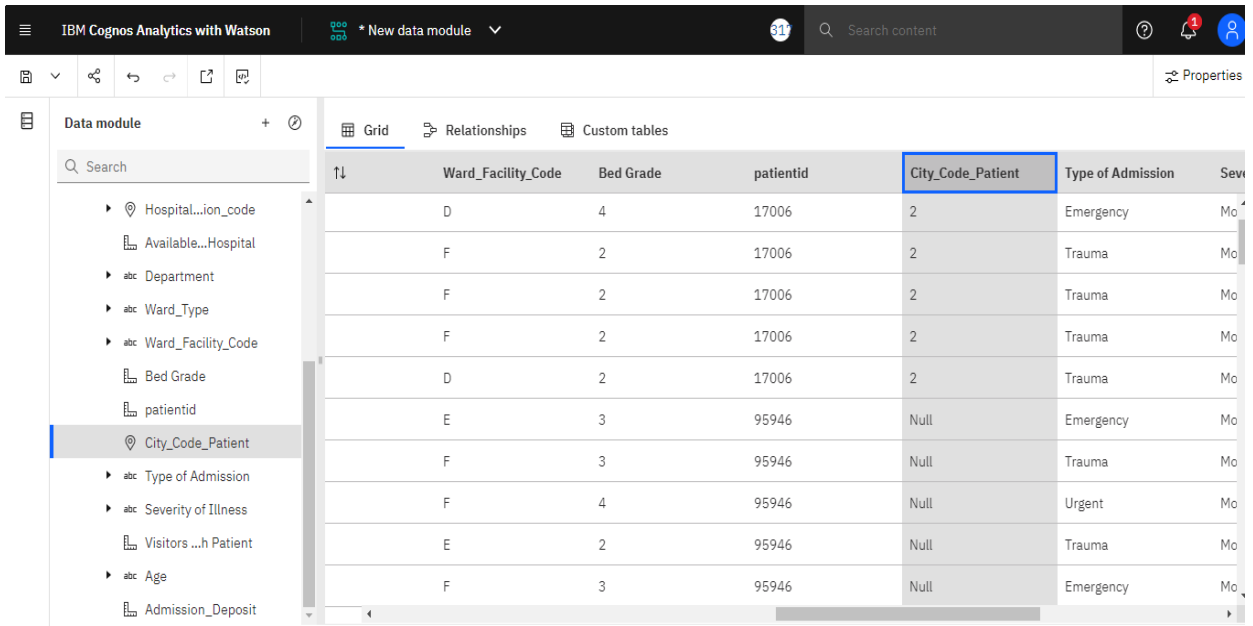
X

2

Data Cleaning and Data Processing using Cognos Analytics:

USN-2:

- As an Analyst, I will check the data set and clean the dataset to create an efficient model.
- To Data cleaning the null values in test_data.csv dataset first.



IBM Cognos Analytics with Watson

New data module

Search content

Properties

Data module

Grid Relationships Custom tables

Search

Hospital...ion_code

Available...Hospital

abc Department

abc Ward_Type

abc Ward_Facility_Code

Bed Grade

patientid

City_Code_Patient

abc Type of Admission

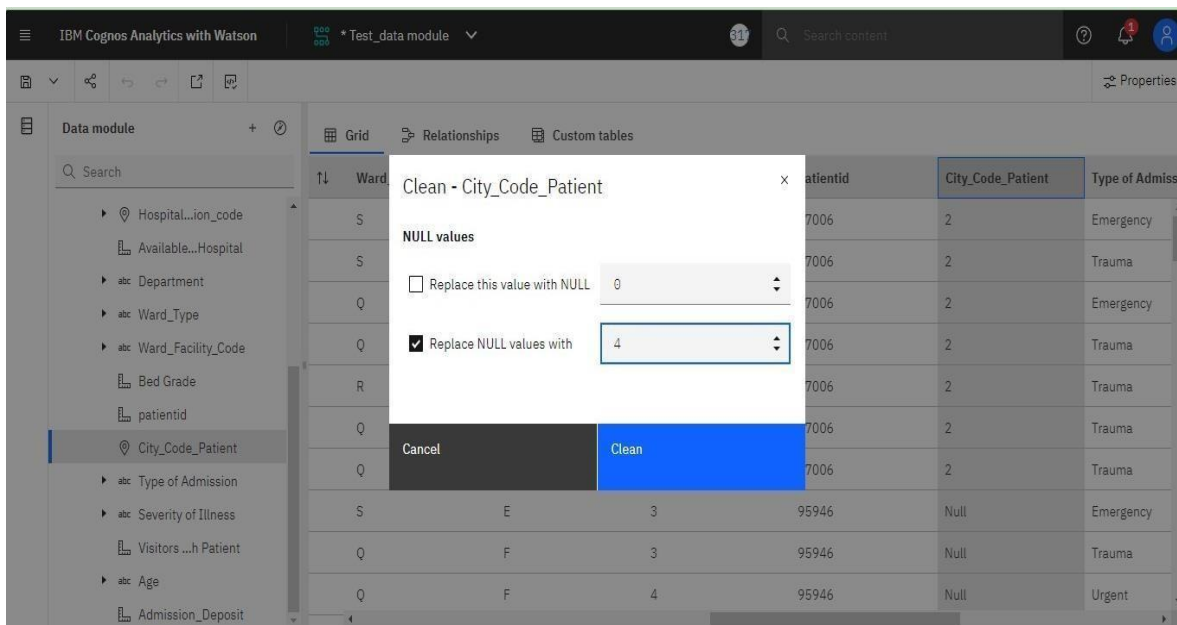
abc Severity of Illness

Visitors ...h Patient

abc Age

Admission_Deposit

Ward_Facility_Code	Bed Grade	patientid	City_Code_Patient	Type of Admission	Sev
D	4	17006	2	Emergency	Mo
F	2	17006	2	Trauma	Mo
F	2	17006	2	Trauma	Mo
F	2	17006	2	Trauma	Mo
D	2	17006	2	Trauma	Mo
E	3	95946	Null	Emergency	Mo
F	3	95946	Null	Trauma	Mo
F	4	95946	Null	Urgent	Mo
E	2	95946	Null	Trauma	Mo
F	3	95946	Null	Emergency	Mo



IBM Cognos Analytics with Watson

Test_data module

Search content

Properties

Data module

Grid Relationships Custom tables

Search

Hospital...ion_code

Available...Hospital

abc Department

abc Ward_Type

abc Ward_Facility_Code

Bed Grade

patientid

City_Code_Patient

abc Type of Admission

abc Severity of Illness

Visitors ...h Patient

abc Age

Admission_Deposit

Clean - City_Code_Patient

NULL values

☐ Replace this value with NULL

☒ Replace NULL values with

0

4

Cancel

Clean

Ward	Bed Grade	patientid	City_Code_Patient	Type of Admiss
S		7006	2	Emergency
S		7006	2	Trauma
Q		7006	2	Emergency
Q		7006	2	Trauma
R		7006	2	Trauma
Q		7006	2	Trauma
Q		7006	2	Trauma
S	E	3	95946	Emergency
Q	F	3	95946	Trauma
Q	F	4	95946	Urgent

IBM Cognos Analytics with Watson

New data module

31

Search content

?

1

Prop

Data module

Search

Hospital...ion_code

Available...Hospital

abc Department

abc Ward_Type

abc Ward_Facility_Code

Bed Grade

patientid

City_Code_Patient

abc Type of Admission

abc Severity of Illness

Visitors ...h Patient

abc Age

Admission_Deposit

Grid

Relationships

Custom tables

↑↓	ient	Ward_Type	Ward_Facility_Code	Bed Grade	patientid	City_Code_Patient
gY	Q	F	2	17006	2	
gY	R	F	2	17006	2	
gY	Q	F	2	17006	2	
gY	Q	D	2	17006	2	
gY	S	E	3	95946	4	
gY	Q	F	3	95946	4	
gY	Q	F	4	95946	4	
gY	Q	E	2	95946	4	
gY	R	F	3	95946	4	
gY	R	A	3	95946	4	

- To Data cleaning the null values in train_data.csv dataset.

IBM Cognos Analytics with Watson

New data module

Search content

Data module

Search

- Available...Hospital
- Department
- Ward_Type
- Ward_Facility_Code
- Bed Grade
- patientid
- City_Code_Patient**
- Type of Admission
- Severity of Illness
- Visitors ...h Patient
- Age
- Admission_Deposit
- Stay

Grid Relationships Custom tables

Clean - City_Code_Patient

NULL values

☐ Replace this value with NULL 0

☒ Replace NULL values with 7

Cancel Clean

Type of Admission	Severity of Illness	Visitors w
Emergency	Extreme	2
Trauma	Extreme	2
Trauma	Extreme	2
Trauma	Extreme	2
Trauma	Extreme	2
Trauma	Extreme	2
Emergency	Extreme	2
Trauma	Extreme	2
Trauma	Extreme	2
Trauma	Extreme	2

IBM Cognos Analytics with Watson

Data module

Search

- Available...Hospital
- abc Department
- abc Ward_Type
- abc Ward_Facility_Code
- Bed Grade
- patientid
- City_Code_Patient
- abc Type of Admission
- abc Severity of Illness
- Visitors ...h Patient
- abc Age
- Admission_Deposit
- abc Stay

Whitespace

☐ Trim leading and trailing whitespace

Convert case to

☐ UPPERCASE ☐ lowercase ☒ Do not change

Return a substring of characters

Start Length

Preview

This is a preview

NULL values

☐ Replace this value with NULL Empty string

☒ Replace NULL values with

Cancel Clean

nt	Age	Admission_Deposit
51-60		4911
51-60		5954
51-60		4745
51-60		7272
51-60		5558
51-60		4449
51-60		6167
51-60		5571
51-60		7223
51-60		6056

IBM Cognos Analytics with Watson

New data module

Search content

Properties

Data module

Search

- New data module
- Navigation paths
- train_data.csv
 - # Row Id
 - # case_id
 - # Hospital_code
 - abc Hospital...ype_code
 - City_Code_Hospital
 - Hospital...ion_code
 - Available...Hospital
 - abc Department
 - abc Ward_Type
 - abc Ward_Facility_Code

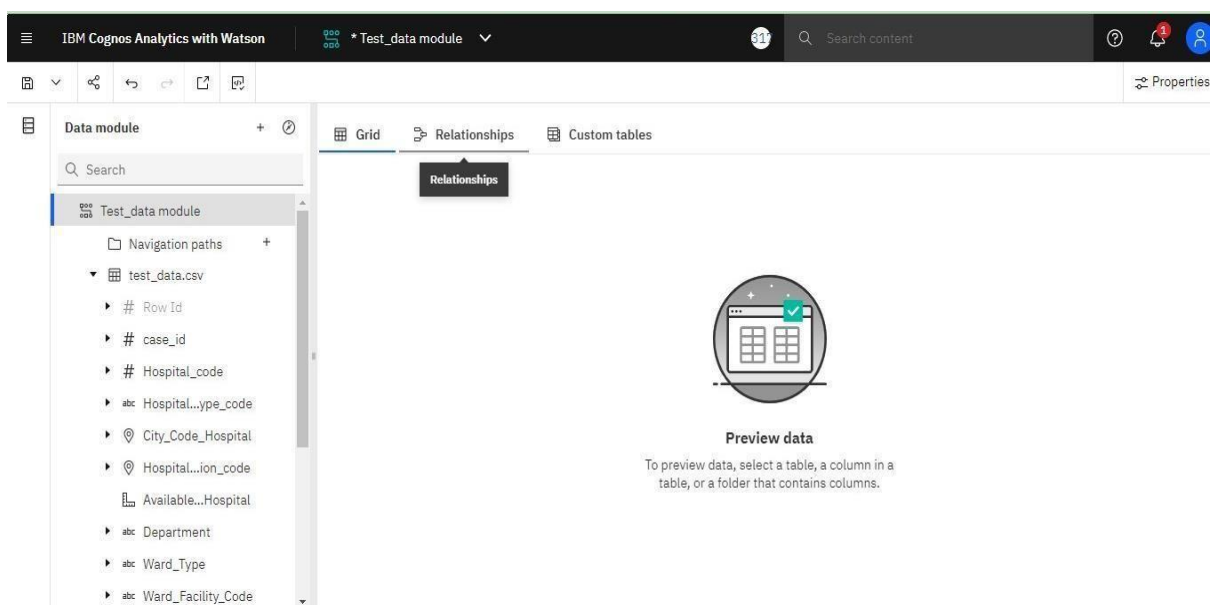
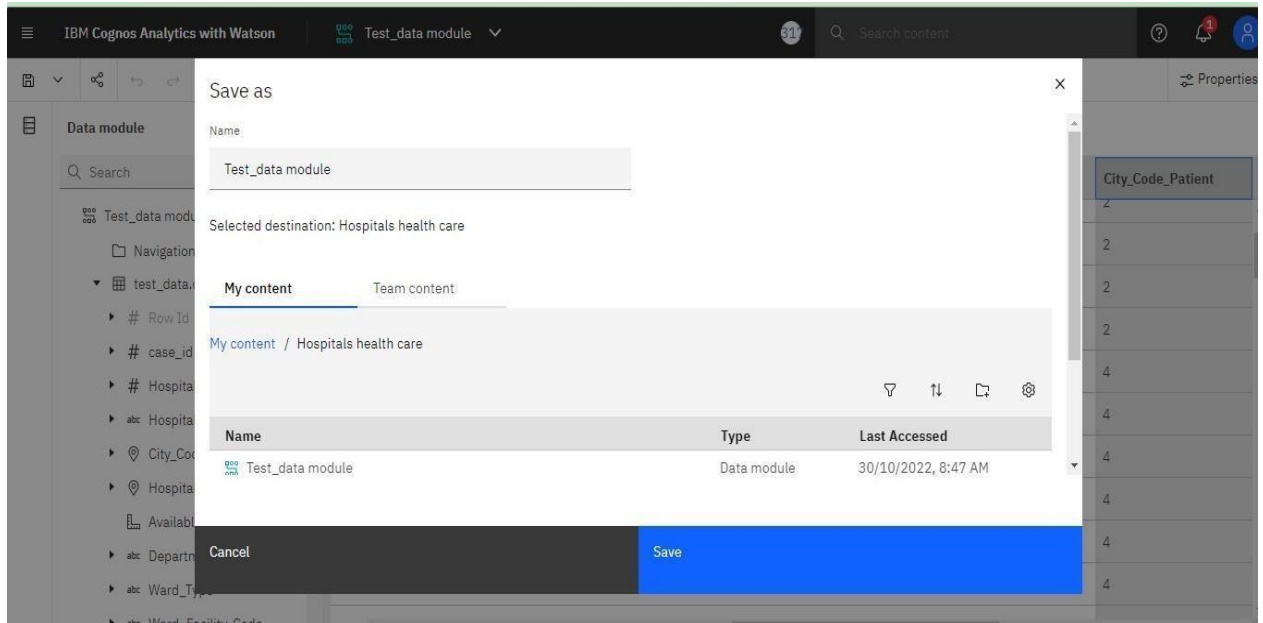
Grid Relationships Custom tables

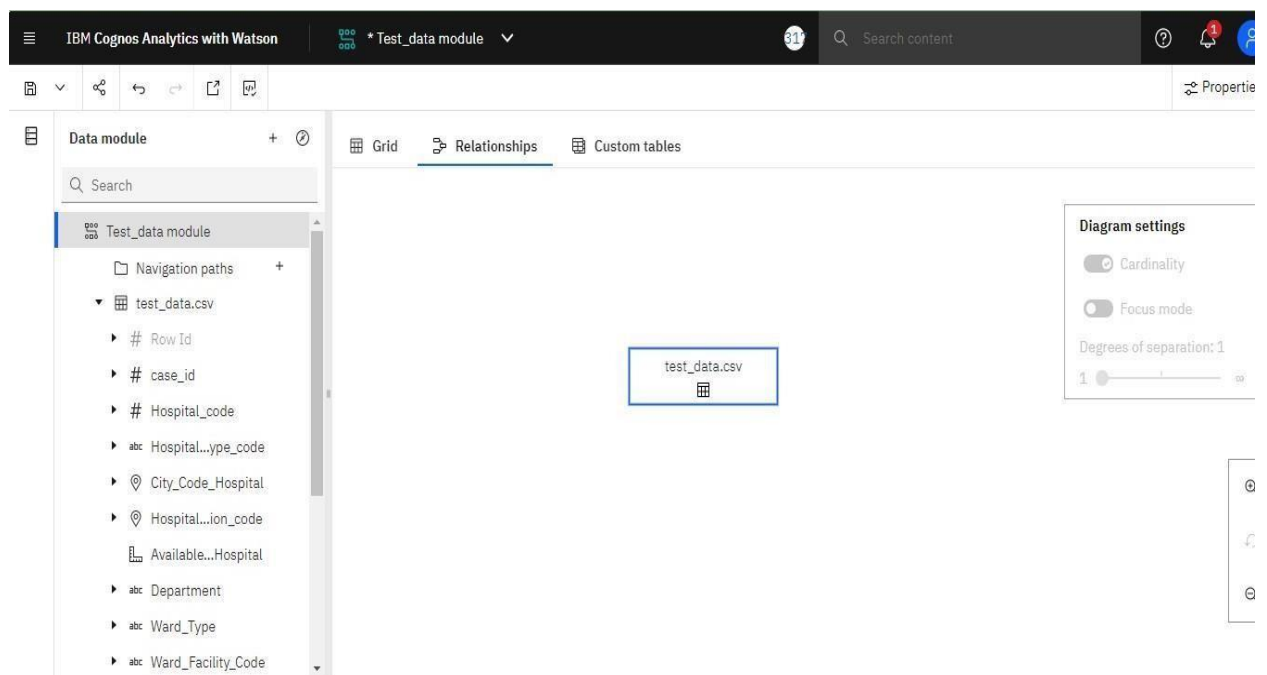
case_id	Hospital_code	Hospital_type_code	City_Code_Hospital	Hospital_region_code	Av
1	8	c	3	Z	3
2	2	c	5	Z	2
3	10	e	1	X	2
4	26	b	2	Y	2
5	26	b	2	Y	2
6	23	a	6	X	2
7	32	f	9	Y	1
8	23	a	6	X	4
9	1	d	10	Y	2
10	10	e	1	X	2

Creating The Data Module using Cognos Analytics:

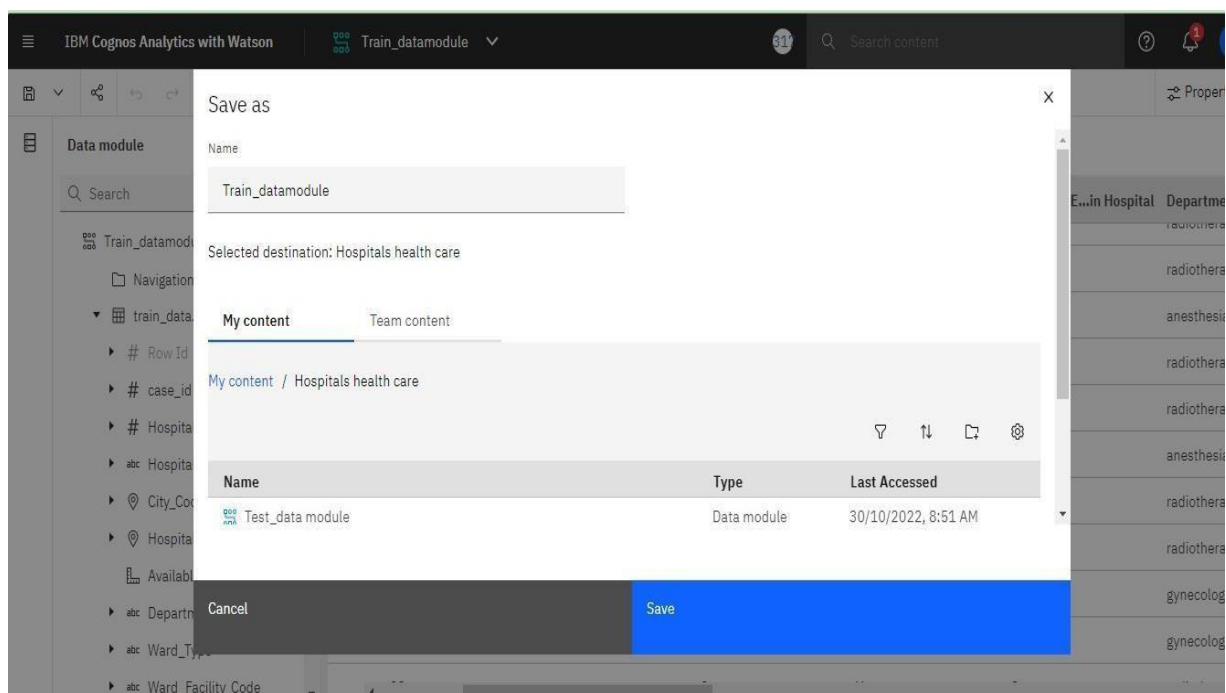
USN-3:

- As an Analyst I will also correct the raw data and create a data module.
- I will Create the data module using test_data.csv dataset first.





- Then I will Create the data module using train_data.csv dataset.



us1.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=i62D0214C205D44E6BF7E5A3DD961130A&objRef=i62D0214C205D44E6BF7E5A3DD961130A&tid...

IBM Cognos Analytics with Watson Train_datamodule

Search content

Data module

Search

Train_datamodule

- Navigation paths
- train_data.csv
 - # Row Id
 - # case_id
 - # Hospital_code
 - abc Hospital...ype_code
 - City_Code_Hospital
 - Hospital...ion_code
 - Available...Hospital
 - abc Department
 - abc Ward_Type
 - abc Ward_Facility_Code

Grid Relationships Custom tables

Preview data

To preview data, select a table, a column in a table, or a folder that contains columns.

IBM Cognos Analytics with Watson Train_datamodule

Search content

Properties

Data module

Search

Train_datamodule

- Navigation paths
- train_data.csv
 - # Row Id
 - # case_id
 - # Hospital_code
 - abc Hospital...ype_code
 - City_Code_Hospital
 - Hospital...ion_code
 - Available...Hospital
 - abc Department
 - abc Ward_Type
 - abc Ward_Facility_Code

Grid Relationships Custom tables

Diagram settings

- ☒ Cardinality
- ☐ Focus mode
- Degrees of separation: 1

train_data.csv