

Search Results - MUU | Platform Login Credentials | Student | Untitled0.ipynb - Col | WhatsApp | Thyroid Disease Data |

colabresearch.google.com/drive/1GFXewdwr42XCrUXoG2d7H-L3nK_Gsq74scro1ToemfTss27-OEL

Untitled0.ipynb

File Edit View Insert Runtime Tools Help All changes saved

Files

sample_data
thyroidData.csv

Code

Test

```
[31]: #encoding the categorical data
#encoding the independent {output}
from sklearn.preprocessing import OrdinalEncoder,LabelEncoder
#categorical data

Ordinal_Encoder=OrdinalEncoder(dtype='float')
x_train[1:100]=Ordinal_Encoder.fit_transform(x_train[1:100])
Ordinal_Encoder.fit_transform(x[["sex"]])

#ipython-input-11-d61dc657b5fd:8: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user\_guide/indexing.html#boolean-updates
x_train[1:100]=Ordinal_Encoder.fit_transform(x_train[1:100])
```

[32]:

	Age	sex	on_thyroxine	query_on_thyroxine	on_antithyroid_drugs	sick	pregnant	thyroid_surgery	T131_treatment	query_hypothyroid	...
9171	31.0	1	0	0	0	0	0	0	0	0	1
9170	47.0	0	0	0	0	0	0	0	0	0	0
9109	09.0	1	0	0	0	0	0	0	0	0	0
9165	22.0	1	0	0	0	0	0	0	0	0	0

Cell completed at 1:10 PM

ThyroidData

Type here to search

The screenshot shows a Google Colab notebook with a single code cell. The code cell contains the following text:

```

colname = 'pandas.core.frame.DataFrame'
RangeIndex: 9172 entries, 0 to 9171
Data columns (total 22 columns):
 #   Column                Non-Null Count  Dtype
---  ---
 0   age                   9172 non-null    float64
 1   sex                   9172 non-null    object
 2   on_thyroxine          9172 non-null    object
 3   qrthyroxine           9172 non-null    object
 4   on_antithyroid_drugs  9172 non-null    object
 5   sick                  9172 non-null    object
 6   pregnant              9172 non-null    object
 7   thyroid_surgery       9172 non-null    object
 8   T1T2_treatment        9172 non-null    object
 9   query_hypothyroid     9172 non-null    object
10   query_hyperthyroid    9172 non-null    object
11   lithium               9172 non-null    object
12   goitre                9172 non-null    object
13   tumor                 9172 non-null    object
14   hypopituitary         9172 non-null    object
15   psych                 9172 non-null    object
16   TSH_measured          9172 non-null    object
17   TSH                   8730 non-null    float64
18   T3_measured           9172 non-null    object
19   T3                    8884 non-null    float64
20   TT4_measured          9172 non-null    object
21   TT4                   8730 non-null    float64
22   T4T4_measured         9172 non-null    object

```

The notebook interface shows the file explorer on the left with a file named 'thyroid.csv'. The status bar at the bottom indicates 'Us completed at 1:28 PM'.

Search Results + MUU X Platform Login Credentials X Student X Untitled0.ipynb - Col X WhatsApp X Thyroid Disease Data X

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Untitled0.ipynb

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Files

sample_data
thyroidData.csv

Code

Test

```
[14] y
0      840001011
1      840001014
2      840001042
3      840001046
4      840001047
...
9167   870110020
9168   870110023
9169   870110025
9170   870110027
9171   870110030
Name: patient_id, Length: 9172, dtype: int64

[16] x['sex'].unique()
array(['M', 'F', nan], dtype=object)

[17] x['sex'].replace(np.nan, 'F', inplace=True)

ipython-input-17-710c3f96b604:1: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame.
See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/10min/7.html#copy-on-write
x['sex'].replace(np.nan, 'F', inplace=True)
```

Colab completed at 1:28 PM

thyroidData

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Untitled0.ipynb

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Files

sample_datathyroidFesv

CodeText

117

	age	sex	on_thyroxine	query_on_thyroxine	on_antithyroid_drugs	sick	pregnant	thyroid_surgery	last_treatment	query_hypothyroid	...
9171	31.0	1	0	0	0	0	0	0	0	1	...
9170	47.0	0	0	0	0	0	0	0	0	0	...
9169	69.0	1	0	0	0	0	0	0	0	0	...
9168	22.0	1	0	0	0	0	0	0	0	0	...
9167	16.0	1	0	0	0	0	0	0	0	0	...
...
5	62.0	0	0	0	0	0	0	0	0	0	...
4	37.0	0	0	0	0	0	0	0	0	0	...
3	36.0	0	0	0	0	0	0	0	0	0	...
2	41.0	0	0	0	0	0	0	0	0	0	...
1	29.0	0	0	0	0	0	0	0	0	0	...

6171 rows • 31 columns

Colab completed at 1:28 PM

thyroidFesv

Type here to search

```
[17]: data.isnull().sum()
```

age	0
sex	267
an_thyroxine	0
quary_on_thyroxine	0
on_antithyroid_meds	0
sick	0
pregnant	0
thyroid_surgery	0
l14_treatment	0
quary_hypothyroid	0
quary_hyertythyroid	0
lithium	0
goitre	0
tumor	0
hypoparathyroid	0
psych	0
tsh_measured	0
tsh	541
t3_measured	0
t3	2804
tt4_measured	0
tt4	442
t4u_measured	0
t4u	808
fti_measured	0
fti	802
t4o_measured	0

Colab completed at 1:28 PM

age	0
sex	507
on_thyroxine	0
quest_yn_thyroxine	0
on_antithyroid_meds	0
etia	0
pregnant	0
thyroid_surgery	0
t13t1_treatment	0
quest_hypothyroid	0
quest_hypothyroid	0
lithium	0
goltic	0
tumor	0
hypopituitary	0
psych	0
tsh_measured	0
tsh	542
t3_measured	0
t3	2594
tt4_measured	0
tt4	442
tt4_measured	0

```
[1]: import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import tensorflow
from tensorflow.keras.models import Sequential
from tensorflow.keras.layers import Layer, Dense, Dropout
```

```
[2]: data=pd.read_csv("thyroidData.csv")
```

```
[3]: data.head()
```

	age	sex	on_thyroxine	query_on_thyroxine	on_antithyroid_drugs	sick	pregnant	thyroid_surgery	last_treatment	query_hypothyroid	...	
0	29	F	f		f	f	f	f		f		
1	29	F	f		f	f	f	f		f		No
2	41	F	f		f	f	f	f		f		128
3	36	F	f		f	f	f	f		f		No
4	32	F	f		f	f	f	f		f		No

5 rows x 31 columns

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Untitled0.ipynb

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Files

- sample_data
- thyroidData.csv

Code

```
[19]: data.dropna(subset=['target'], inplace=True)
```

```
[20]: data['target'].value_counts()
```

K	9771
G	436
Q	392
I	348
P	235
H	198
A	187
L	115
N	111
S	85
GC	68
AK	46
J	30
R	21
HY	16
Q	14
U	14
L[1	12
KI	11
GJ	10
H/K	8
B	8
PK	8
C	6

11.45 GB available

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thyroidData.csv

Twitter

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Untitled0.ipynb

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Files

sample_data
thyroidDF.csv

Code + Text

✓ [23] x

	age	sex	on_thyroxine	current_thyroxine	on_antithyroid_drugs	sick	pregnant	thyroid_surgery	hst_treatment	query_hypothyroid	...
9171	31	M	f	f	f	f	f	f	f	f	...
9170	47	F	f	f	f	f	f	f	f	f	...
9169	65	M	f	f	f	f	f	f	f	f	...
9168	27	M	f	f	f	f	f	f	f	f	...
9167	56	M	f	f	f	f	f	f	f	f	...
...
5	60	F	f	f	f	f	f	f	f	f	...
4	32	F	f	f	f	f	f	f	f	f	...
3	36	F	f	f	f	f	f	f	f	f	...
2	41	F	f	f	f	f	f	f	f	f	...
1	29	F	f	f	f	f	f	f	f	f	...

9171 rows x 31 columns

Copy

Cell completed at 1:28 PM

thyroidData

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Files

sample_data
thyroidDF.csv

Code

Text

Tab
Code

[21]

age	sex	on_thyroxine	query_on_thyroxine	on_antithyroid_drugs	sick	pregnant	thyroid_surgery	T131_treatment	query_hypothyroid
2876	455	F	1	1	1	1	1	1	1
5710	65511	M	1	1	1	1	1	1	1
6392	65512	M	1	1	1	1	1	1	1
8105	65526	F	1	1	1	1	1	1	1

4 rows x 10 columns

[22]

#splitting the data values as x and y
x=data.iloc[:,1]
y=data.iloc[:,2]

[23]

age	sex	on_thyroxine	query_on_thyroxine	on_antithyroid_drugs	sick	pregnant	thyroid_surgery	T131_treatment	query_hypothyroid
5671	31	M	1	1	1	1	1	1	1
5670	47	F	1	1	1	1	1	1	1
5669	66	M	1	1	1	1	1	1	1

Colab completed at 1:28 AM

thyroidData

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Untitled0.ipynb

File Edit View Insert Runtime Tools Help All changes saved

Files

- sample_data
- thyroidDF.csv

Code

```
[17]: data.isnull().sum()
```

age	0
sex	207
on_thyroxine	0
query_on_thyroxine	0
on_antithyroid_drugs	0
sick	0
pregnant	0
thyroid_surgery	0
ltd1_insultant	0
query_hypothyroid	0
query_hyperthyroid	0
lithium	0
goitre	0
tumor	0
hyperplasticity	0
psych	0
TSH_measured	0
TSH	642
T3_measured	0
T3	2804
TT4_measured	0
TT4	442
T4U_measured	0
T4U	606
FTI_measured	0
FTI	802
T80_measured	0

Colab completed at 1:28 AM

thyroidData

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