```
import pandas as pd
from botocore.client import Config
import ibm_boto3
def __iter__(self): return 0
# @hidden cell
# The following code accesses a file in your IBM Cloud Object Storage. It
includes your credentials.
# You might want to remove those credentials before you share the notebook.
cos_client = ibm_boto3.client(service_name='s3',
    ibm_api_key_id='Yvey0a8nHXCeOCSU6rc9-00ZTin1RYQCH60hv1a693xn',
    ibm_auth_endpoint="https://iam.cloud.ibm.com/oidc/token",
    config=Config(signature_version='oauth'),
    endpoint_url='https://s3.private.us.cloud-object-
storage.appdomain.cloud')
bucket = 'basicmodeldeployment-donotdelete-pr-3msb4enhu3uf2k'
object_key = 'dataset_website.csv'
body = cos_client.get_object(Bucket=bucket, Key=object_key)['Body']
# add missing __iter__ method, so pandas accepts body as file-like object
if not hasattr(body, "__iter__"): body.__iter__ = types.MethodType( __iter__,
body )
df = pd.read_csv(body)
df.head()
                                                                               Out[59]:
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```

import os, types

n	having _IPhav ing_IP_ Addre ss	UR LU RL _Le ng th	Sho rtin ing_ Ser vice	hav ing _At _Sy mb ol	doubl e_slas h_red irecti ng	Pr ef ix _S uf fi x	havi ng_ Sub _Do mai n	SS Lfi na I_S ta te	Domai n_regis teratio n_leng th	po pU p Wi dn ow	r a m	of_ do	D N S R e c o r d	w e b _t r a ff ic	Page-Rank	G oo gl e_ In de x	Links _poin ting_ to_pa ge	tist ical _re por	R e s u I t
4	1	0	1	1	1	-1	-1	-1	1	. 1	1	-1	- 1	1	- 1	1	-1	1	1
5	1	0	-1	1	1	-1	1	1	-1	1	1	-1	- 1	0	- 1	1	1	1	1

 $5 \text{ rows} \times 32 \text{ columns}$

In [60]:

#checking null values
df.info()

RangeIndex: 11055 entries, 0 to 11054 Data columns (total 32 columns):

#	Column	Non-N	ull Count	Dtype
0	index	11055	non-null	 int64
1	having_IPhaving_IP_Address	11055	non-null	int64
2	URLURL_Length	11055	non-null	int64
3	Shortining_Service	11055	non-null	int64
4	having_At_Symbol	11055	non-null	int64
5	double_slash_redirecting	11055	non-null	int64
6	Prefix_Suffix	11055	non-null	int64
7	having_Sub_Domain	11055	non-null	int64
8	SSLfinal_State	11055	non-null	int64
9	Domain_registeration_length	11055	non-null	int64
10	Favicon	11055	non-null	int64
11	port	11055	non-null	int64
12	- HTTPS_token	11055	non-null	int64
13	Request_URL	11055	non-null	int64
14	URL_of_Anchor	11055	non-null	int64
15	Links_in_tags	11055	non-null	int64
16	SFH	11055	non-null	int64
17	Submitting_to_email	11055	non-null	int64
18	Abnormal_URL	11055	non-null	int64
19	Redirect	11055	non-null	int64
20	on_mouseover	11055	non-null	int64
21	RightClick	11055	non-null	int64
22	popUpWidnow	11055	non-null	int64
23	Iframe	11055	non-null	int64

24	age_of_domain	11055	non-null	int64
25	DNSRecord	11055	non-null	int64
26	web_traffic	11055	non-null	int64
27	Page_Rank	11055	non-null	int64
28	Google_Index	11055	non-null	int64
29	Links_pointing_to_page	11055	non-null	int64
30	Statistical_report	11055	non-null	int64
31	Result	11055	non-null	int64
J				

dtypes: int64(32) memory usage: 2.7 MB

In [61]:

df.isnull().any()

Out[61]:

index	False
having_IPhaving_IP_Address	False
URLURL_Length	False
Shortining_Service	False
having_At_Symbol	False
double_slash_redirecting	False
Prefix_Suffix	False
having_Sub_Domain	False
SSLfinal_State	False
Domain_registeration_length	False
Favicon	False
port	False
HTTPS_token	False
Request_URL	False
URL_of_Anchor	False
Links_in_tags	False
SFH	False
Submitting_to_email	False
Abnormal_URL	False
Redirect	False
on_mouseover	False
RightClick	False
popUpWidnow	False
Iframe	False
age_of_domain	False
DNSRecord	False
web_traffic	False
Page_Rank	False
Google_Index	False
Links_pointing_to_page	False
Statistical_report	False
Result	False

dtype: bool

There is no null values

splitting data as dependent and independent values.

```
In [62]:
x=df.iloc[:,1:31].values
y=df.iloc[:,-1].values
print(x,y)
[[-1 \ 1 \ 1 \ \dots \ 1 \ 1 \ -1]
 [ 1 1 1 ... 1 1 1]
 [1 0 1 \dots 1 0 -1]
 [ 1 -1 1 ... 1
                    0 1]
 [-1 -1 1 ... 1
                    1 1]
 [-1 \ -1 \ 1 \ \dots \ -1 \ 1 \ -1]] [-1 \ -1 \ -1 \ \dots \ -1 \ -1 \ -1]
                                                                             In [63]:
from sklearn.model_selection import train_test_split
x_train,x_test,y_train,y_test=train_test_split(x,y,test_size=0.2,random_
state=0)
                                                                             In [64]:
x_train.shape
                                                                            Out[64]:
(8844, 30)
                                                                             In [65]:
x_test.shape
                                                                            Out[65]:
(2211, 30)
                                                                             In [66]:
y_train.shape
                                                                            Out[66]:
(8844,)
                                                                             In [67]:
y_test.shape
                                                                            Out[67]:
(2211,)
                                                                             In [68]:
from sklearn.linear_model import LogisticRegression
lr=LogisticRegression()
lr.fit(x_train,y_train)
                                                                            Out[68]:
LogisticRegression()
```

```
In [69]:
from sklearn.ensemble import RandomForestClassifier
rf=RandomForestClassifier(n_estimators=10,criterion='entropy',random_sta
rf.fit(x_train,y_train)
                                                                      Out[69]:
RandomForestClassifier(criterion='entropy', n_estimators=10,
random_state=42)
                                                                       In [70]:
from sklearn.linear_model import LinearRegression
linr=LinearRegression()
linr.fit(x_train,y_train)
                                                                      Out[70]:
LinearRegression()
                                                                       In [71]:
from sklearn.tree import DecisionTreeClassifier
dtree = DecisionTreeClassifier()
dtree.fit(x_train, y_train)
                                                                      Out[71]:
DecisionTreeClassifier()
                                                                       In [72]:
from sklearn.naive_bayes import GaussianNB
qnb = GaussianNB()
gnb.fit(x_train, y_train)
                                                                      Out[72]:
GaussianNB()
                                                                       In [73]:
!pip install ibm_watson_machine_learning
Requirement already satisfied: ibm_watson_machine_learning in
/opt/conda/envs/Python-3.9/lib/python3.9/site-packages (1.0.257)
Requirement already satisfied: packaging in /opt/conda/envs/Python-
3.9/lib/python3.9/site-packages (from ibm_watson_machine_learning) (21.3)
Requirement already satisfied: pandas<1.5.0,>=0.24.2 in
/opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from
ibm_watson_machine_learning) (1.3.4)
Requirement already satisfied: lomond in /opt/conda/envs/Python-
3.9/lib/python3.9/site-packages (from ibm_watson_machine_learning) (0.3.3)
Requirement already satisfied: urllib3 in /opt/conda/envs/Python-
3.9/lib/python3.9/site-packages (from ibm_watson_machine_learning)
(1.26.7)
```

```
Requirement already satisfied: tabulate in /opt/conda/envs/Python-
3.9/lib/python3.9/site-packages (from ibm_watson_machine_learning) (0.8.9)
Requirement already satisfied: ibm-cos-sdk==2.11.* in
/opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from
ibm_watson_machine_learning) (2.11.0)
Requirement already satisfied: certifi in /opt/conda/envs/Python-
3.9/lib/python3.9/site-packages (from ibm_watson_machine_learning)
Requirement already satisfied: importlib-metadata in
/opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from
ibm_watson_machine_learning) (4.8.2)
Requirement already satisfied: requests in /opt/conda/envs/Python-
3.9/lib/python3.9/site-packages (from ibm_watson_machine_learning)
(2.26.0)
Requirement already satisfied: ibm-cos-sdk-s3transfer==2.11.0 in
/opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from ibm-cos-
sdk==2.11.*->ibm_watson_machine_learning) (2.11.0)
Requirement already satisfied: jmespath<1.0.0,>=0.7.1 in
/opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from ibm-cos-
sdk==2.11.*->ibm_watson_machine_learning) (0.10.0)
Requirement already satisfied: ibm-cos-sdk-core==2.11.0 in
/opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from ibm-cos-
sdk==2.11.*->ibm_watson_machine_learning) (2.11.0)
Requirement already satisfied: python-dateutil<3.0.0,>=2.1 in
/opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from ibm-cos-sdk-
core==2.11.0->ibm-cos-sdk==2.11.*->ibm_watson_machine_learning) (2.8.2)
Requirement already satisfied: pytz>=2017.3 in /opt/conda/envs/Python-
3.9/lib/python3.9/site-packages (from pandas<1.5.0,>=0.24.2-
>ibm_watson_machine_learning) (2021.3)
Requirement already satisfied: numpy>=1.17.3 in /opt/conda/envs/Python-
3.9/lib/python3.9/site-packages (from pandas<1.5.0,>=0.24.2-
>ibm_watson_machine_learning) (1.20.3)
Requirement already satisfied: six>=1.5 in /opt/conda/envs/Python-
3.9/lib/python3.9/site-packages (from python-dateutil<3.0.0,>=2.1->ibm-
cos-sdk-core==2.11.0->ibm-cos-sdk==2.11.*->ibm_watson_machine_learning)
(1.15.0)
Requirement already satisfied: idna<4,>=2.5 in /opt/conda/envs/Python-
3.9/lib/python3.9/site-packages (from requests-
>ibm_watson_machine_learning) (3.3)
Requirement already satisfied: charset-normalizer~=2.0.0 in
/opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from requests-
>ibm_watson_machine_learning) (2.0.4)
Requirement already satisfied: zipp>=0.5 in /opt/conda/envs/Python-
3.9/lib/python3.9/site-packages (from importlib-metadata-
>ibm_watson_machine_learning) (3.6.0)
Requirement already satisfied: pyparsing!=3.0.5,>=2.0.2 in
/opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from packaging-
>ibm_watson_machine_learning) (3.0.4)
                                                                      In [74]:
from ibm_watson_machine_learning import APIClient
```

wml_credentials={"url":"https://us-south.ml.cloud.ibm.com",
"apikey":"001tA0u5406fPphWBHm7tmkdjxeN rhZem6AvnxQsLaa"}

```
client=APIClient(wml_credentials)
                                                                      In [75]:
def guid_from_space_name(client,space_name):
    space=client.spaces.get_details()
    return(next(item for item in space['resources'] if
item['entity']['name'] == space_name)['metadata']['id'])
                                                                      In [76]:
space_uid =guid_from_space_name(client,'modeldeployment')
print ('Space ID = '+space uid)
Space ID = 3d7b865c-63f8-414a-9247-2d78f19081e5
                                                                      In [77]:
client.set.default_space(space_uid)
                                                                     Out[77]:
'SUCCESS'
                                                                      In [81]:
client.software specifications.list(500)
NAME
                                 ASSET_ID
TYPE
                                 0062b8c9-8b7d-44a0-a9b9-46c416adcbd9
default_py3.6
                                 020d69ce-7ac1-5e68-ac1a-31189867356a
kernel-spark3.2-scala2.12
base
pytorch-onnx_1.3-py3.7-edt
                                 069ea134-3346-5748-b513-49120e15d288
base
scikit-learn_0.20-py3.6
                                 09c5a1d0-9c1e-4473-a344-eb7b665ff687
spark-mllib_3.0-scala_2.12
                                 09f4cff0-90a7-5899-b9ed-1ef348aebdee
base
                                 0b848dd4-e681-5599-be41-b5f6fccc6471
pytorch-onnx rt22.1-py3.9
base
ai-function_0.1-py3.6
                                 Ocdb0f1e-5376-4f4d-92dd-da3b69aa9bda
base
shiny-r3.6
                                 0e6e79df-875e-4f24-8ae9-62dcc2148306
tensorflow_2.4-py3.7-horovod
                                 1092590a-307d-563d-9b62-4eb7d64b3f22
                                 10ac12d6-6b30-4ccd-8392-3e922c096a92
pytorch_1.1-py3.6
base
tensorflow_1.15-py3.6-ddl
                                 111e41b3-de2d-5422-a4d6-bf776828c4b7
                                 12b83a17-24d8-5082-900f-0ab31fbfd3cb
runtime-22.1-py3.9
scikit-learn_0.22-py3.6
                                154010fa-5b3b-4ac1-82af-4d5ee5abbc85
base
```

default_r3.6	1b70aec3-ab34-4b87-8aa0-a4a3c8296a36
base	
pytorch-onnx_1.3-py3.6	1bc6029a-cc97-56da-b8e0-39c3880dbbe7
base kernel-spark3.3-r3.6	1c9e5454-f216-59dd-a20e-474a5cdf5988
base	Toyou 131 1210 33dd d200 17 1d30d13300
<pre>pytorch-onnx_rt22.1-py3.9-edt base</pre>	1d362186-7ad5-5b59-8b6c-9d0880bde37f
tensorflow_2.1-py3.6 base	1eb25b84-d6ed-5dde-b6a5-3fbdf1665666
<pre>spark-mllib_3.2 base</pre>	20047f72-0a98-58c7-9ff5-a77b012eb8f5
tensorflow_2.4-py3.8-horovod	217c16f6-178f-56bf-824a-b19f20564c49
runtime-22.1-py3.9-cuda base	26215f05-08c3-5a41-a1b0-da66306ce658
do_py3.8 base	295addb5-9ef9-547e-9bf4-92ae3563e720
autoai-ts_3.8-py3.8 base	2aa0c932-798f-5ae9-abd6-15e0c2402fb5
tensorflow_1.15-py3.6	2b73a275-7cbf-420b-a912-eae7f436e0bc
base kernel-spark3.3-py3.9	2b7961e2-e3b1-5a8c-a491-482c8368839a
<pre>base pytorch_1.2-py3.6</pre>	2c8ef57d-2687-4b7d-acce-01f94976dac1
<pre>base spark-mllib_2.3</pre>	2e51f700-bca0-4b0d-88dc-5c6791338875
base	
<pre>pytorch-onnx_1.1-py3.6-edt base</pre>	32983cea-3f32-4400-8965-dde874a8d67e
<pre>spark-mllib_3.0-py37 base</pre>	36507ebe-8770-55ba-ab2a-eafe787600e9
spark-mllib_2.4 base	390d21f8-e58b-4fac-9c55-d7ceda621326
xgboost_0.82-py3.6	39e31acd-5f30-41dc-ae44-60233c80306e
base pytorch-onnx_1.2-py3.6-edt	40589d0e-7019-4e28-8daa-fb03b6f4fe12
<pre>base default_r36py38</pre>	41c247d3-45f8-5a71-b065-8580229facf0
base	
autoai-ts_rt22.1-py3.9 base	4269d26e-07ba-5d40-8f66-2d495b0c71f7
autoai-obm_3.0	42b92e18-d9ab-567f-988a-4240ba1ed5f7
base	
pmml-3.0_4.3 base	493bcb95-16f1-5bc5-bee8-81b8af80e9c7
spark-mllib_2.4-r_3.6	49403dff-92e9-4c87-a3d7-a42d0021c095
base	455046 ** 0 1242 4 ** 10 05 1 600 06520430
xgboost_0.90-py3.6 base	4ff8d6c2-1343-4c18-85e1-689c965304d3
<pre>pytorch-onnx_1.1-py3.6 base</pre>	50f95b2a-bc16-43bb-bc94-b0bed208c60b

autoai-ts_3.9-py3.8 base	52c57136-80fa-572e-8728-a5e7cbb42cde
spark-mllib_2.4-scala_2.11	55a70f99-7320-4be5-9fb9-9edb5a443af5
<pre>base spark-mllib_3.0</pre>	5c1b0ca2-4977-5c2e-9439-ffd44ea8ffe9
<pre>base autoai-obm_2.0</pre>	5c2e37fa-80b8-5e77-840f-d912469614ee
base	
spss-modeler_18.1 base	5c3cad7e-507f-4b2a-a9a3-ab53a21dee8b
cuda-py3.8	5d3232bf-c86b-5df4-a2cd-7bb870a1cd4e
base	632d4b22-10aa-5180-88f0-f52dfb6444d7
<pre>autoai-kb_3.1-py3.7 base</pre>	
<pre>pytorch-onnx_1.7-py3.8 base</pre>	634d3cdc-b562-5bf9-a2d4-ea90a478456b
<pre>spark-mllib_2.3-r_3.6 base</pre>	6586b9e3-ccd6-4f92-900f-0f8cb2bd6f0c
tensorflow_2.4-py3.7	65e171d7-72d1-55d9-8ebb-f813d620c9bb
base spss-modeler_18.2	687eddc9-028a-4117-b9dd-e57b36f1efa5
base	
<pre>pytorch-onnx_1.2-py3.6 base</pre>	692a6a4d-2c4d-45ff-a1ed-b167ee55469a
<pre>spark-mllib_2.3-scala_2.11 base</pre>	7963efe5-bbec-417e-92cf-0574e21b4e8d
spark-mllib_2.4-py37	7abc992b-b685-532b-a122-a396a3cdbaab
base caffe_1.0-py3.6	7bb3dbe2-da6e-4145-918d-b6d84aa93b6b
base	
<pre>pytorch-onnx_1.7-py3.7 base</pre>	812c6631-42b7-5613-982b-02098e6c909c
cuda-py3.6 base	82c79ece-4d12-40e6-8787-a7b9e0f62770
tensorflow_1.15-py3.6-horovod	8964680e-d5e4-5bb8-919b-8342c6c0dfd8
<pre>base hybrid_0.1</pre>	8c1a58c6-62b5-4dc4-987a-df751c2756b6
base	
pytorch-onnx_1.3-py3.7	8d5d8a87-a912-54cf-81ec-3914adaa988d
<pre>base caffe-ibm_1.0-py3.6</pre>	8d863266-7927-4d1e-97d7-56a7f4c0a19b
base	04000100 7517 1410 5747 004711004152
spss-modeler_17.1	902d0051-84bd-4af6-ab6b-8f6aa6fdeabb
base do_12.10	9100fd72-8159-4eb9-8a0b-a87e12eefa36
<pre>base do_py3.7</pre>	9447fa8b-2051-4d24-9eef-5acb0e3c59f8
base	
<pre>spark-mllib_3.0-r_3.6 base</pre>	94bb6052-c837-589d-83f1-f4142f219e32
cuda-py3.7-opence	94e9652b-7f2d-59d5-ba5a-23a414ea488f
base	

nlp-py3.8	96e60351-99d4-5a1c-9cc0-473ac1b5a864
base	0-44000- 11 4-73 5-50 -4000011741-
cuda-py3.7	9a44990c-1aa1-4c7d-baf8-c4099011741c
base hybrid_0.2	9b3f9040-9cee-4ead-8d7a-780600f542f7
base	3D313040-3Cee-4ead-6d7a-760000134217
spark-mllib_3.0-py38	9f7a8fc1-4d3c-5e65-ab90-41fa8de2d418
base	yr, acror rase sees abyo rrradaczarro
autoai-kb_3.3-py3.7	a545cca3-02df-5c61-9e88-998b09dc79af
base	
spark-mllib_3.0-py39	a6082a27-5acc-5163-b02c-6b96916eb5e0
base	
runtime-22.1-py3.9-do	a7e7dbf1-1d03-5544-994d-e5ec845ce99a
base	
default_py3.8	ab9e1b80-f2ce-592c-a7d2-4f2344f77194
base	
tensorflow_rt22.1-py3.9	acd9c798-6974-5d2f-a657-ce06e986df4d
base	
kernel-spark3.2-py3.9	ad7033ee-794e-58cf-812e-a95f4b64b207
base	
autoai-obm_2.0 with Spark 3.0	af10f35f-69fa-5d66-9bf5-acb58434263a
base	
<pre>default_py3.7_opence base</pre>	c2057dd4-f42c-5f77-a02f-72bdbd3282c9
tensorflow_2.1-py3.7	c4032338-2a40-500a-beef-b01ab2667e27
base	C4032336-2a40-300a-Deel-D01aD2007e27
do_py3.7_opence	cc8f8976-b74a-551a-bb66-6377f8d865b4
base	5510 D710 D710 5510 D500 557710005551
spark-mllib_3.3	d11f2434-4fc7-58b7-8a62-755da64fdaf8
base	
autoai-kb_3.0-py3.6	d139f196-e04b-5d8b-9140-9a10ca1fa91a
base	
spark-mllib_3.0-py36	d82546d5-dd78-5fbb-9131-2ec309bc56ed
base	
autoai-kb_3.4-py3.8	da9b39c3-758c-5a4f-9cfd-457dd4d8c395
base	
kernel-spark3.2-r3.6	db2fe4d6-d641-5d05-9972-73c654c60e0a
base	11 6 6 00 6666 6010 1 118 108000840410
autoai-kb_rt22.1-py3.9	db6afe93-665f-5910-b117-d879897404d9
base	ddo170gg go67 Edo7 Ob70 gf0/g6007foo
tensorflow_rt22.1-py3.9-horovod base	dda170cc-ca67-5da7-9b7a-cf84c6987fae
autoai-ts_1.0-py3.7	deef04f0-0c42-5147-9711-89f9904299db
base	dee10410-0042-3147-3711-0313304233db
tensorflow_2.1-py3.7-horovod	e384fce5-fdd1-53f8-bc71-11326c9c635f
base	25012500 1441 3310 2071 113200700331
default_py3.7	e4429883-c883-42b6-87a8-f419d64088cd
base	
do_22.1	e51999ba-6452-5f1f-8287-17228b88b652
base	
autoai-obm_3.2	eae86aab-da30-5229-a6a6-1d0d4e368983
base	

```
do_20.1
                                  f686cdd9-7904-5f9d-a732-01b0d6b10dc5
base
scikit-learn_0.19-py3.6
                                  f963fa9d-4bb7-5652-9c5d-8d9289ef6ad9
tensorflow_2.4-py3.8
                                  fe185c44-9a99-5425-986b-59bd1d2eda46
base
                                                                        In [85]:
software_spec_uid=client.software_specifications.get_uid_by_name("runtim
e-22.1-py3.9")
software_spec_uid
                                                                        Out[85]:
'12b83a17-24d8-5082-900f-0ab31fbfd3cb'
                                                                        In [86]:
import sklearn
sklearn.__version__
                                                                        Out[86]:
'1.0.2'
                                                                         In [88]:
model_details = client.repository.store_model(model=rf,meta_props={
 client.repository.ModelMetaNames.NAME: "modeldeployment",
 client.repository.ModelMetaNames.TYPE: "scikit-learn_1.0",
 client.repository.ModelMetaNames.SOFTWARE_SPEC_UID:software_spec_uid }
model_id = client.repository.get_model_id(model_details)
                                                                        In [89]:
model_id
                                                                        Out[89]:
'21a65b8c-7f36-4748-b76f-4d399013a0f7'
                                                                          In [ ]:
```

<html>