I wasn't registered during this lab and so didn't had much idea as to what has to be done i

import pandas as pd
import numpy as np

data = pd.read_csv('KDD_Train.csv')
data.head()

0	0	tcp	ftp_data	SF	491	0	_	
4					731	0	0	0
1	0	udp	other	SF	146	0	0	0
2	0	tcp	private	S0	0	0	0	0
3	0	tcp	http	SF	232	8153	0	0
4	0	tcp	http	SF	199	420	0	0

data.isnull()

duration	0
protocol_type	0
service	0
flag	0
src_bytes	0
dst_bytes	0
land	0
wrong_fragment	0
urgent	0
hot	0
<pre>num_failed_logins</pre>	0
logged_in	0
num_compromised	0
root_shell	0
su_attempted	0
num_root	0
num_file_creations	0
num_shells	0
num_access_files	0
num_outbound_cmds	0
is_host_login	0
is_guest_login	0
count	0
srv_count	0
serror_rate	0
srv_serror_rate	0
rerror_rate	0
srv_rerror_rate	0
same_srv_rate	0
diff_srv_rate	0
srv_diff_host_rate	0
dst_host_count	0
dst_host_srv_count	0
dst_host_same_srv_rate	0
dst_host_diff_srv_rate	0
dst_host_same_src_port_rate	0
<pre>dst_host_srv_diff_host_rate</pre>	0
dst_host_serror_rate	0
dst_host_srv_serror_rate	0
dst_host_rerror_rate	0
dst_host_srv_rerror_rate	0
class	0
dtype: int64	

data.duplicated()

0 False
1 False

2	False
3	False
4	False
	• • •
125968	False
125969	False
125970	False
125971	False
125972	False

Length: 125973, dtype: bool

data.drop_duplicates()

	duration	<pre>protocol_type</pre>	service	flag	<pre>src_bytes</pre>	dst_bytes	land	wrong_fragm
0	0	tcp	ftp_data	SF	491	0	0	
1	0	udp	other	SF	146	0	0	
2	0	tcp	private	S0	0	0	0	
3	0	tcp	http	SF	232	8153	0	
4	0	tcp	http	SF	199	420	0	
125968	0	tcp	private	S0	0	0	0	
125969	8	udp	private	SF	105	145	0	
125970	0	tcp	smtp	SF	2231	384	0	
125971	0	tcp	klogin	S0	0	0	0	
125972	0	tcp	ftp_data	SF	151	0	0	

125964 rows × 42 columns

data['src_bytes'].describe()

count 1.259730e+05
mean 4.556674e+04
std 5.870331e+06
min 0.000000e+00
25% 0.000000e+01
50% 4.400000e+01
75% 2.760000e+02
max 1.379964e+09

Name: src_bytes, dtype: float64

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