

```
In [26]: # Data processing:
import numpy as np
import pandas as pd

# Utils:
import sklearn.decomposition
from sklearn.preprocessing import StandardScaler, MinMaxScaler

# Visuals:
import seaborn as sns
import matplotlib.pyplot as plt
```

```
In [27]: # Set random seed:
GLOBAL_SEED = 419514
np.random.seed(GLOBAL_SEED)

# Computation data format:
comp_dtype = 'float32'

# Increase pandas printing limits
pd.set_option('display.max_columns', 90)
pd.set_option('display.width', 1000)
pd.set_option('display.max_rows', 90)
```

```
In [28]: data_df = pd.read_csv(r"C:\Users\Nitin Agarwal\Downloads\DrDoS_SSDP.csv")
data_df.drop(labels=['Unnamed: 0'], axis=1, inplace=True)
data_df.shape
```

C:\Users\Nitin Agarwal\AppData\Local\Temp\ipykernel_26092\4190063438.py:1: DtypeWarning: Columns (85) have mixed types. Specify dtype option on import or set low_memory=False.

```
data_df = pd.read_csv(r"C:\Users\Nitin Agarwal\Downloads\DrDoS_SSDP.csv")
```

Out[28]: (2611374, 87)

```
In [29]: def first_unique_values(column):
unique_values = column.value_counts().index.values

if column.isna().sum()>0:
    unique_values = np.append(np.nan, unique_values)
sorted_unique_values = unique_values[:min(5, unique_values.shape[0])]

return sorted_unique_values

def gen_basic_info_dataframe(df, typical_values = True):
basic_info=pd.DataFrame(df.nunique(), columns=['num_unique_values'])

basic_info['data_type'] = df.dtypes
basic_info['NaN_percentage'] = (df.isna().sum())*100/df.shape[0]
if typical_values:
    basic_info['typical_values'] = df.apply(first_unique_values, axis=0)

return basic_info
```

```
basic_info = gen_basic_info_dataframe(data_df)
basic_info[20:25]
```

```
Out[29]:
```

	num_unique_values	data_type	NaN_percentage	typical_value
Flow Bytes/s	142424	float64	0.000077	[nan, 802000000.0, 766000000.0, 750000000.0, 4
Flow Packets/s	87307	float64	0.000000	[2000000.0, 1000000.0, 41666.666666666666, inf,
Flow IAT Mean	94628	float64	0.000000	[1.0, 2.0, 48.0, 0.49,
Flow IAT Std	565076	float64	0.000000	[0.0577350269189625, 0.447213595499957
Flow IAT Max	46098	float64	0.000000	[1.0, 2.0, 48.0, 0.49,

```
In [30]: data_df.drop(labels=['Flow Bytes/s'], axis=1, inplace=True)
```

```
In [31]: irrelevant_columns = [
    'Flow ID',
    'Source IP',
    'Source Port',
    'Destination IP',
    'Destination Port',
    'Timestamp',
    'SimillarHTTP',
]

data_df.drop(labels=irrelevant_columns, axis=1, inplace=True)
```

```
In [32]: one_value_columns = basic_info[basic_info['num_unique_values']==1].index.tolist()
print("Columns to drop:\n", one_value_columns)

data_df.drop(labels=one_value_columns, axis=1, inplace=True)
```

Columns to drop:

```
[' Bwd PSH Flags', ' Fwd URG Flags', ' Bwd URG Flags', 'FIN Flag Count', ' PSH Flag Count', ' ECE Flag Count', 'Fwd Avg Bytes/Bulk', ' Fwd Avg Packets/Bulk', ' Fwd Avg Bulk Rate', ' Bwd Avg Bytes/Bulk', ' Bwd Avg Packets/Bulk', 'Bwd Avg Bulk Rate']
```

```
In [35]: non_numeric_cols = data_df.select_dtypes(include=['object']).columns
print("Non-numeric columns:", non_numeric_cols)
```

Non-numeric columns: Index([' Label'], dtype='object')

```
In [36]: # Drop the non-numeric ' Label' column
numeric_df = data_df.drop(columns=[' Label'])
```

```
# Ensure all remaining columns are numeric
numeric_df = numeric_df.apply(pd.to_numeric, errors='coerce')

# Calculate the Pearson correlation matrix
corr_matrix = numeric_df.corr(method='pearson')

# Display the correlation matrix
print(corr_matrix)
```

Protocol	Flow Duration	Total Fwd Packets	Total Backward Packets	Total Length of Fwd Packets	Total Length of Bwd Packets	Fwd Packet Length Max	Fwd Packet Length Min	Fwd Packet Length Mean	Fwd Packet Length Std	Bwd Packet Length Max	Bwd Packet Length Min	Bwd Packet Length Mean	Bwd Packet Length Std	Flow Packets/s	Flow IAT Mean	Flow IAT Std	Flow IAT Max	Flow IAT Min	Fwd IAT Total	Fwd IAT Mean	Fwd IAT Std	Fwd IAT Max	Fwd IAT Min	Bwd IAT Total	Bwd IAT Mean	Bwd IAT Std	Bwd IAT Max	Bwd IAT Min	Fwd PSH Flags	Fwd Header Length	Bwd Header Length	Fwd Packets/s	Bwd Packets/s	Min Packet Length	Max Packet Length	Packet Length Mean	Packet Length Std	Packet Length Variance	SYN Flag Count	RST Flag Count	ACK Flag Count	URG Flag Count	CWE Flag Count	Down/Up Ratio	Average Packet Size	Avg Fwd Segment Size	Avg Bwd Segment Size	Fwd Header Length.1	Subflow Fwd Packets	\																																																																																																																							
Protocol	1.000000	-0.273254	-0.052613	-0.378916	0.015405	-0.120114	0.040461	0.052418	0.051415	-0.038940	-0.349290	-0.038265	-0.31378	4	-0.366671	0.013197	-0.094018	-0.128857	-0.190382	-0.003179	-0.262704	-0.128029	-0.139432	-0.176920	-0.000711	-0.275552	-2.746348e-01	-0.254831	-0.244323	-0.152467	-0.357655	-0.003152	-0.000032	0.013008	-0.412432	0.052520	1.924773e-02	0.048101	-0.082620	-0.262115	-0.130824	-0.357655	-0.497734	-0.763509	-0.586640	-0.564844	0.041623	0.051415	-0.313784	-0.003152	-0.052613	Flow Duration	-0.273254	1.000000	0.177593	0.301313	0.208740	0.056637	-0.018915	-0.065091	-0.047365	0.179581	0.152051	0.002914	0.122868	0.146277	-0.148398	0.675295	0.697600	0.808203	0.088310	0.998162	0.724392	0.722778	0.806452	0.088317	0.650597	5.023344e-01	0.542678	0.563987	0.026622	0.062633	-0.031809	0.000125	-0.145096	-0.001415	-0.065095	-8.581011e-03	-0.047935	0.199559	0.154928	0.006008	0.062633	0.120098	0.116778	-0.001304	0.061861	-0.092510	-0.047365	0.122868	-0.031809	0.177593	Total Fwd Packets	-0.052613	0.177593	1.000000	0.378156	0.100147	0.006473	-0.008334	-0.022467	-0.016347	0.056254	0.004470	-0.000455	0.003786	0.004063	-0.048719	0.014236	0.011691	0.017202	0.000051	0.178056	0.013871	0.011488	0.017228	0.000056	0.238957	1.532800e-02	0.018378	0.031895	0.004088	0.000169	-0.014944	0.000092	-0.047637	-0.000661	-0.022467	-8.040745e-03	-0.016848	0.057131	0.012250	0.000102	0.000169	0.003208	-0.000442	-0.000967	-0.000060	-0.032205	-0.016347	0.003786	-0.014944	4	1.000000	Total Backward Packets	-0.378916	0.301313	0.378156	1.000000	0.005449	0.628670	0.000268	-0.020212	-0.017945	0.0	46654	0.481160	0.051550	0.43085

2	0.430120	-0.006571	0.028876	0.052724
0.117466	0.000166	0.296668	0.051385	0.064652
12273	0.000070	0.464928	1.872096e-01	0.208517
0	0.058023	0.051283	0.001213	-0.008880
-0.006434	0.048469	-0.020242	2.930112e-02	
-0.012547	0.113753		0.385569	0.022343
0.051283	0.365805	0.105149	0.055806	0.205910
-0.012372	-0.017945		0.430852	0.00121
3	0.378156			
Total Length of Fwd Packets	0.015405		0.208740	0.100147
0.005449	1.000000			0.010030
0.178769	0.045285		0.105403	0.4
75236	0.008176		-0.010365	0.00354
0	0.007508	-0.418901	0.120610	0.092590
0.096587	0.000044	0.209431	0.115079	0.089738
97011	0.000107	-0.001350	-3.475692e-03	-0.001767
4	-0.006035	-0.007576	-0.141908	0.001851
-0.408115	-0.010117	0.045266	1.785030e-01	
0.100012	0.479438		0.086847	-0.003217
-0.007576	-0.000249	-0.016497	-0.014371	-0.014806
-0.056550	0.105403		0.003540	-0.14190
8	0.100147			
Total Length of Bwd Packets	-0.120114		0.056637	0.006473
0.628670	0.010030			1.000000
0.009106	-0.006893		-0.005415	0.0
30418	0.438179		0.008474	0.51970
6	0.405266	-0.002232	0.005985	0.019031
0.053105	-0.000002	0.055055	0.011090	0.024662
50995	-0.000004	0.090843	3.813529e-02	0.070304
9	0.016611	0.004617	0.000414	-0.001129
-0.002183	0.003095	-0.006896	3.827942e-02	
0.002596	0.115047		0.480981	-0.000007
0.004617	0.228379	0.008401	0.006908	0.087197
0.000039	-0.005415		0.519706	0.000414
0.006473				
Fwd Packet Length Max	0.040461		-0.018915	-0.008334
0.000268	0.178769			0.009106
1.000000	0.974672		0.990876	-0.1
15757	0.014900		-0.025486	0.00440
6	0.015309	0.043975	-0.034045	-0.033678
-0.027177	-0.001261	-0.018672	-0.033808	-0.032768
026956	-0.001094	-0.004565	-8.867664e-03	-0.005059
85	-0.015012	-0.018166	-0.000594	0.004567
0.045369	-0.025938	0.974648	9.974092e-01	
0.988970	-0.112779		0.006204	-0.008261
-0.018166	-0.002209	-0.042521	-0.036778	-0.038792
0.932394	0.990876		0.004406	-0.000594
-0.008334				
Fwd Packet Length Min	0.052418		-0.065091	-0.022467
-0.020212	0.045285			-0.006893
0.974672	1.000000		0.995452	-0.3
31559	-0.021139		-0.022653	-0.02275
6	-0.020471	0.217883	-0.085359	-0.079831
-0.071339	-0.000823	-0.064624	-0.083980	-0.078254
070743	-0.000674	-0.014326	-1.569112e-02	-0.014592
49	-0.015336	-0.019843	0.019460	0.004012

0.215224	-0.023168	0.999998	9.704623e-01	
0.996645	-0.327241	-0.062247	-0.007311	
-0.019843	-0.027817	-0.042520	-0.032739	-0.040366
0.987944	0.995452	-0.022756		0.019460
-0.022467				
Fwd Packet Length Mean	0.051415	-0.047365		-0.016347
-0.017945	0.105403		-0.005415	
0.990876	0.995452	1.000000		-0.2
42207	-0.015248	-0.024027		-0.01817
1	-0.014060	0.142557	-0.064184	-0.060694
-0.054001	-0.001021	-0.046940	-0.063590	-0.059629
053498	-0.000863	-0.013045	-1.471064e-02	-0.013100
47	-0.015766	-0.019245	0.010576	0.004282
0.141675	-0.024580	0.995435	9.868779e-01	
0.999737	-0.239174	-0.040741	-0.007775	
-0.019245	-0.023923	-0.043240	-0.034688	-0.041726
0.970341	1.000000	-0.018171		0.010576
-0.016347				
Fwd Packet Length Std	-0.038940	0.179581		0.056254
0.046654	0.475236		0.030418	
-0.115757	-0.331559	-0.242207		1.
000000	0.099921	-0.007243		0.0797
04	0.105245	-0.818475	0.239602	0.218998
0.199641	-0.001738	0.178623	0.232310	0.214011
98030	-0.001690	0.026158	2.089892e-02	0.027934
8	0.002138	0.010605	-0.077476	0.001536
-0.794532	-0.007190	-0.331624	-1.106605e-01	
-0.256969	0.985569	0.250416	-0.002531	
0.010605	0.076158	0.004103	-0.010314	0.003688
-0.456354	-0.242207	0.079704		-0.07747
6	0.056254			
Bwd Packet Length Max	-0.349290	0.152051		0.004470
0.481160	0.008176		0.438179	
0.014900	-0.021139	-0.015248		0.0
99921	1.000000	0.079865		0.85938
4	0.955076	-0.006895	0.022886	0.061150
0.149285	0.000034	0.143172	0.037829	0.072945
36357	-0.000013	0.237243	1.407284e-01	0.217415
4	0.068466	0.030068	0.001273	-0.011012
-0.006744	0.005478	-0.021172	8.232555e-02	
-0.004995	0.239806	0.790272	-0.000021	
0.030068	0.654683	0.030583	0.014042	0.179847
-0.007723	-0.015248	0.859384		0.00127
3	0.004470			
Bwd Packet Length Min	-0.038265	0.002914		-0.000455
0.051550	-0.010365		0.008474	
-0.025486	-0.022653	-0.024027		-0.
007243	0.079865	1.000000		0.2550
09	0.000478	-0.008089	0.001041	0.002884
0.006212	0.000599	0.002432	0.002578	0.003720
05422	-0.000014	0.006213	1.362067e-02	0.014692
4	0.274693	0.102478	0.001385	-0.138711
-0.007911	0.004402	-0.022653	-1.988965e-02	
-0.021581	0.018315	0.008773	-0.000025	
0.102478	-0.000095	0.050199	0.002879	0.314965
-0.018429	-0.024027	0.255009		0.00138

5	-0.000455			
Bwd Packet Length Mean	-0.313784	0.122868	0.003786	
0.430852	0.003540		0.519706	
0.004406	-0.022756	-0.018171		0.0
79704	0.859384	0.255009		1.00000
0	0.897956	-0.007553	0.020289	0.053713
0.129771	0.000141	0.110673	0.030041	0.059232
10954	-0.000013	0.188641	1.238104e-01	0.186357
7	0.114508	0.060549	0.001374	-0.035266
-0.007388	0.006735	-0.022787	6.483348e-02	
-0.004749	0.235095	0.845520	-0.000023	
0.060549	0.547277	0.054117	0.027475	0.229429
-0.007858	-0.018171	1.000000		0.00137
4	0.003786			
Bwd Packet Length Std	-0.366671	0.146277	0.004063	
0.430120	0.007508		0.405266	
0.015309	-0.020471	-0.014060		0.1
05245	0.955076	0.000478		0.89795
6	1.000000	-0.006622	0.024607	0.063574
0.150521	-0.000014	0.132982	0.037600	0.071248
30314	-0.000013	0.223328	1.452606e-01	0.216752
5	0.052874	0.030553	0.001231	0.000014
-0.006477	0.006180	-0.020517	7.895258e-02	
-0.003617	0.247046	0.805126	-0.000020	
0.030553	0.687552	0.031913	0.013459	0.137802
-0.006673	-0.014060	0.897956		0.00123
1	0.004063			
Flow Packets/s	0.013197	-0.148398	-0.048719	
-0.006571	-0.418901		-0.002232	
0.043975	0.217883	0.142557		-0.8
18475	-0.006895	-0.008089		-0.00755
3	-0.006622	1.000000	-0.217614	-0.199327
-0.173371	-0.001584	-0.148597	-0.209215	-0.193524
173626	-0.001540	-0.004636	-5.093759e-03	-0.004738
61	-0.005174	-0.004378	0.066101	0.001432
1.000000	-0.007219	0.217884	4.342542e-02	
0.155585	-0.800241	-0.121557	-0.001664	
-0.004378	-0.008774	-0.009486	-0.007976	-0.013223
0.335029	0.142557	-0.007553		0.066101
-0.048719				
Flow IAT Mean	-0.094018	0.675295	0.014236	
0.028876	0.120610		0.005985	
-0.034045	-0.085359	-0.064184		0.
239602	0.022886	0.001041		0.0202
89	0.024607	-0.217614	1.000000	0.982336
0.905119	0.122785	0.674923	0.985555	0.966218
05536	0.122768	0.120590	1.666293e-01	0.156668
1	0.011466	0.017103	-0.018397	0.000067
-0.212715	-0.002103	-0.085361	-3.256027e-02	
-0.067652	0.236715	0.053435	0.004705	
0.017103	0.043519	0.045040	-0.000893	0.025172
-0.120307	-0.064184	0.020289		-0.01839
7	0.014236			
Flow IAT Std	-0.128857	0.697600	0.011691	
0.052724	0.092590		0.019031	
-0.033678	-0.079831	-0.060694		0.

218998	0.061150		0.002884		0.0537
13	0.063574	-0.199327	0.982336		1.000000
0.950841	0.028662	0.696464	0.983241	0.994409	0.9
50259	0.028688	0.214690	2.560659e-01	0.270519	0.25618
9	0.017734	0.033632	-0.013904		0.000032
-0.194855	-0.001925	-0.079834	-2.962247e-02		
-0.063640	0.221474		0.080881		0.005738
0.033632	0.073494	0.061191	-0.001186		0.036623
-0.109346	-0.060694		0.053713		-0.01390
4	0.011691				
Flow IAT Max		-0.190382	0.808203		0.017202
0.117466		0.096587		0.053105	
-0.027177	-0.071339		-0.054001		0.
199641	0.149285		0.006212		0.1297
71	0.150521	-0.173371	0.905119		0.950841
1.000000	0.051355	0.805390	0.930808	0.965331	0.9
97161	0.051365	0.410880	3.990502e-01	0.472277	0.49551
2	0.026715	0.059618	-0.013812		0.000041
-0.169499	-0.001663	-0.071343	-1.700434e-02		
-0.055567	0.216101		0.151247		0.006367
0.059618	0.134299	0.083525	-0.001025		0.059813
-0.096589	-0.054001		0.129771		-0.01381
2	0.017202				
Flow IAT Min		-0.003179	0.088310		0.000051
0.000166		0.000044		-0.000002	
-0.001261	-0.000823		-0.001021		-0.
001738	0.000034		0.000599		0.0001
41	-0.000014	-0.001584	0.122785		0.028662
0.051355	1.000000	0.088547	0.117607	0.027787	0.0
51497	0.999411	-0.000010	-1.086630e-05	-0.000010	-0.00001
0	-0.000004	-0.000007	-0.000366		0.000003
-0.001546	0.000033	-0.000823	-1.253395e-03		
-0.000986	-0.001675		-0.000253		-0.000005
-0.000007	-0.000019	0.004181	0.005456		0.002427
-0.001014	-0.001021		0.000141		-0.00036
6	0.000051				
Fwd IAT Total		-0.262704	0.998162		0.178056
0.296668		0.209431		0.055055	
-0.018672	-0.064624		-0.046940		0.
178623	0.143172		0.002432		0.1106
73	0.132982	-0.148597	0.674923		0.696464
0.805390	0.088547	1.000000	0.725679	0.724115	0.8
07933	0.088560	0.645172	4.924279e-01	0.533648	0.55539
9	0.024305	0.061570	-0.031935		0.000278
-0.145290	-0.001425	-0.064628	-8.849516e-03		
-0.047623	0.197162		0.148945		0.006025
0.061570	0.101203	0.114835	-0.001820		0.048844
-0.092349	-0.046940		0.110673		-0.03193
5	0.178056				
Fwd IAT Mean		-0.128029	0.724392		0.013871
0.051385		0.115079		0.011090	
-0.033808	-0.083980		-0.063590		0.
232310	0.037829		0.002578		0.0300
41	0.037600	-0.209215	0.985555		0.983241
0.930808	0.117607	0.725679	1.000000	0.982854	0.9
33621	0.117660	0.227247	3.105592e-01	0.288849	0.24707

3	0.017503	0.029320	-0.017495	0.000391
-0.204512	-0.002033	-0.083985	-3.144203e-02	
-0.066839	0.231046	0.066529	0.008512	
0.029320	0.052527	0.085321	-0.002383	0.035442
-0.117027	-0.063590	0.030041	-0.01749	
5	0.013871			
Fwd IAT Std		-0.139432	0.722778	0.011488
0.064652		0.089738	0.024662	
-0.032768	-0.078254	-0.059629	0.	
214011	0.072945	0.003720	0.0592	
32	0.071248	-0.193524	0.966218	0.994409
0.965331	0.027787	0.724115	0.982854	1.000000
68136	0.027798	0.275763	3.225463e-01	0.344849
3	0.019708	0.042287	-0.013428	0.000362
-0.189187	-0.001877	-0.078257	-2.791243e-02	
-0.062410	0.217919	0.091870	0.007154	
0.042287	0.074595	0.075842	-0.002231	0.036854
-0.106653	-0.059629	0.059232	-0.01342	
8	0.011488			
Fwd IAT Max		-0.176920	0.806452	0.017228
0.112273		0.097011	0.050995	
-0.026956	-0.070743	-0.053498	0.	
198030	0.136357	0.005422	0.1109	
54	0.130314	-0.173626	0.905536	0.950259
0.997161	0.051497	0.807933	0.933621	0.968136
000000	0.051518	0.405277	3.878588e-01	0.461254
5	0.023583	0.058074	-0.013902	0.000325
-0.169748	-0.001677	-0.070746	-1.753507e-02	
-0.055239	0.212294	0.142088	0.006388	
0.058074	0.110589	0.081120	-0.001966	0.046152
-0.096397	-0.053498	0.110954	-0.01390	
2	0.017228			
Fwd IAT Min		-0.000711	0.088317	0.000056
0.000070		0.000107	-0.000004	
-0.001094	-0.000674	-0.000863	-0.	
001690	-0.000013	-0.000014	-0.0000	
13	-0.000013	-0.001540	0.122768	0.028688
0.051365	0.999411	0.088560	0.117660	0.027798
51518	1.000000	-0.000009	-1.021395e-05	-0.000010
9	0.000296	0.002073	-0.000374	0.000003
-0.001503	-0.000016	-0.000685	-1.091023e-03	
-0.000836	-0.001597	-0.000236	-0.000004	
0.002073	-0.000018	0.000948	0.001249	0.000543
-0.000889	-0.000863	-0.000013	-0.00037	
4	0.000056			
Bwd IAT Total		-0.275552	0.650597	0.238957
0.464928		-0.001350	0.090843	
-0.004565	-0.014326	-0.013045	0.	
026158	0.237243	0.006213	0.1886	
41	0.223328	-0.004636	0.120590	0.214690
0.410880	-0.000010	0.645172	0.227247	0.275763
05277	-0.000009	1.000000	7.286912e-01	0.792636
1	0.033521	0.084265	0.000862	0.000009
-0.004534	-0.000004	-0.014333	1.169792e-02	
-0.011041	0.058404	0.205286	0.004467	
0.084265	0.152266	0.172205	0.000086	0.102653

-0.010101		-0.013045		0.188641		0.00086
2	0.238957					
Bwd IAT Mean		-0.274635		0.502334		0.015328
0.187210		-0.003476			0.038135	
-0.008868		-0.015691		-0.014711		0.
020899		0.140728		0.013621		0.1238
10		0.145261	-0.005094		0.166629	0.256066
0.399050	-0.000011		0.492428	0.310559		0.322546
87859	-0.000010	0.728691	1.000000e+00		0.937010	0.80391
3	0.041704	0.103256		0.000947		0.000010
-0.004982	-0.000020		-0.015706		9.962734e-07	
-0.013690		0.037292		0.115242		0.017781
0.103256	0.109227		0.272565		0.000817	0.146746
-0.012037		-0.014711		0.123810		0.00094
7	0.015328					
Bwd IAT Std		-0.254831		0.542678		0.018378
0.208517		-0.001767			0.070304	
-0.005059		-0.014592		-0.013100		0.
027934		0.217415		0.014692		0.1863
57		0.216752	-0.004738		0.156668	0.270519
0.472277	-0.000010		0.533648	0.288849		0.344849
61254	-0.000010	0.792636	9.370104e-01		1.000000	0.95063
5	0.039989	0.127489		0.000881		0.000009
-0.004634	-0.000015		-0.014603		9.430651e-03	
-0.011331		0.056221		0.180569		0.016034
0.127489	0.144306		0.220570		0.000589	0.132243
-0.010324		-0.013100		0.186357		0.00088
1	0.018378					
Bwd IAT Max		-0.244323		0.563987		0.031895
0.260970		-0.000454			0.104949	
-0.002585		-0.013749		-0.012047		0.
031198		0.281314		0.013934		0.2385
87		0.273545	-0.004461		0.134631	0.256189
0.495512	-0.000010		0.555399	0.247073		0.329143
85255	-0.000009	0.842881	8.039134e-01		0.950635	1.00000
0	0.036653	0.120844		0.000829		0.000009
-0.004362	-0.000005		-0.013756		1.680068e-02	
-0.009524		0.070748		0.239330		0.010230
0.120844	0.179701		0.168180		0.000282	0.123102
-0.009019		-0.012047		0.238587		0.00082
9	0.031895					
Bwd IAT Min		-0.152467		0.026622		0.004088
0.058023		-0.006035			0.016611	
-0.015012		-0.015336		-0.015766		0.
002138		0.068466		0.274693		0.1145
08		0.052874	-0.005174		0.011466	0.017734
0.026715	-0.000004		0.024305	0.017503		0.019708
23583	0.000296	0.033521	4.170409e-02		0.039989	0.03665
3	1.000000	0.051108		0.000954		-0.083483
-0.005078	0.110088		-0.015354		-1.075022e-02	
-0.014650		0.014730		0.036337		0.034708
0.051108	0.099604		0.133247		0.122798	0.239063
-0.012551		-0.015766		0.114508		0.00095
4	0.004088					
Fwd PSH Flags		-0.357655		0.062633		0.000169
0.051283		-0.007576			0.004617	

-0.018166	-0.019843	-0.019245	0.
010605	0.030068	0.102478	0.0605
49	0.030553	-0.004378	0.017103
0.059618	-0.000007	0.061570	0.029320
58074	0.002073	0.084265	1.032559e-01
4	0.051108	1.000000	0.001199
-0.004457	0.003313	-0.019952	-1.753993e-02
-0.018588	0.011298	0.012505	-0.000020
1.000000	-0.000076	0.468436	0.021381
-0.015809	-0.019245	0.060549	0.00119
9	0.000169		
Fwd Header Length	-0.003152	-0.031809	-0.014944
0.001213	-0.141908		0.000414
-0.000594	0.019460	0.010576	-0.
077476	0.001273	0.001385	0.0013
74	0.001231	0.066101	-0.018397
-0.013812	-0.000366	-0.031935	-0.013428
013902	-0.000374	0.000862	9.468536e-04
29	0.000954	0.001199	1.000000
0.064386	0.001390	0.019459	-5.144867e-04
0.011396	-0.077767	-0.011256	0.000439
0.001199	0.001669	0.002561	0.001967
0.033745	0.010576	0.001374	1.000000
-0.014944			
Bwd Header Length	-0.000032	0.000125	0.000092
-0.008880	0.001851		-0.001129
0.004567	0.004012	0.004282	0.0
01536	-0.011012	-0.138711	-0.03526
6	0.000014	0.001432	0.000067
0.000041	0.000003	0.000278	0.000391
00325	0.000003	0.000009	9.514801e-06
9	-0.083483	0.000012	0.000330
0.001401	-0.000541	0.004012	3.849075e-03
0.003963	-0.001793	-0.001021	0.000004
0.000012	0.000018	0.000026	0.000020
0.003369	0.004282	-0.035266	0.000330
0.000092			
Fwd Packets/s	0.013008	-0.145096	-0.047637
-0.006434	-0.408115		-0.002183
0.045369	0.215224	0.141675	-0.7
94532	-0.006744	-0.007911	-0.00738
8	-0.006477	1.000000	-0.212715
-0.169499	-0.001546	-0.145290	-0.204512
169748	-0.001503	-0.004534	-4.981600e-03
62	-0.005078	-0.004457	0.064386
1.000000	-0.007224	0.215225	4.482455e-02
0.154400	-0.777078	-0.118844	-0.001699
-0.004457	-0.008598	-0.009411	-0.007858
0.329446	0.141675	-0.007388	0.064386
-0.047637			
Bwd Packets/s	-0.412432	-0.001415	-0.000661
0.048469	-0.010117		0.003095
-0.025938	-0.023168	-0.024580	-0.
007190	0.005478	0.004402	0.0067
35	0.006180	-0.007219	-0.002103
-0.001663	0.000033	-0.001425	-0.002033

001677	-0.000016	-0.000004	-1.980366e-05	-0.000015	-0.0000
05	0.110088	0.003313	0.001390	-0.000541	
-0.007224	1.000000		-0.023170	-2.552631e-02	
-0.024273	-0.006082		0.003299	0.016876	
0.003313	0.120510	0.461540	0.595106	0.567596	
-0.020336	-0.024580		0.006735	0.00139	
0	-0.000661				
Min Packet Length		0.052520	-0.065095	-0.022467	
-0.020242		0.045266		-0.006896	
0.974648		0.999998	0.995435	-0.3	
31624	-0.021172		-0.022653	-0.02278	
7	-0.020517	0.217884	-0.085361	-0.079834	
-0.071343	-0.000823	-0.064628	-0.083985	-0.078257	-0.
070746	-0.000685	-0.014333	-1.570599e-02	-0.014603	-0.0137
56	-0.015354	-0.019952	0.019459	0.004012	
0.215225	-0.023170	1.000000	9.704384e-01		
0.996636	-0.327332		-0.062791	-0.007311	
-0.019952	-0.027817	-0.042654	-0.032774	-0.040399	
0.987938	0.995435		-0.022787	0.019459	
-0.022467					
Max Packet Length		0.019248	-0.008581	-0.008041	
0.029301		0.178503		0.038279	
0.997409		0.970462	0.986878	-0.1	
10661	0.082326		-0.019890	0.06483	
3	0.078953	0.043425	-0.032560	-0.029622	
-0.017004	-0.001253	-0.008850	-0.031442	-0.027912	-0.
017535	-0.001091	0.011698	9.962734e-07	0.009431	0.0168
01	-0.010750	-0.017540	-0.000514	0.003849	
0.044825	-0.025526	0.970438	1.000000e+00		
0.985811	-0.096723		0.061107	-0.008238	
-0.017540	0.037983	-0.040972	-0.035197	-0.026518	
0.929199	0.986878		0.064833	-0.000514	
-0.008041					
Packet Length Mean		0.048101	-0.047935	-0.016848	
-0.012547		0.100012		0.002596	
0.988970	0.996645		0.999737	-0.2	
56969	-0.004995		-0.021581	-0.00474	
9	-0.003617	0.155585	-0.067652	-0.063640	
-0.055567	-0.000986	-0.047623	-0.066839	-0.062410	-0.
055239	-0.000836	-0.011041	-1.369035e-02	-0.011331	-0.0095
24	-0.014650	-0.018588	0.011396	0.003963	
0.154400	-0.024273	0.996636	9.858114e-01		
1.000000	-0.251199		-0.032873	-0.007702	
-0.018588	-0.018458	-0.042543	-0.033683	-0.038333	
0.973713	0.999737		-0.004749	0.011396	
-0.016848					
Packet Length Std		-0.082620	0.199559	0.057131	
0.113753		0.479438		0.115047	
-0.112779	-0.327241		-0.239174	0.	
985569	0.239806		0.018315	0.2350	
95	0.247046	-0.800241	0.236715	0.221474	
0.216101	-0.001675	0.197162	0.231046	0.217919	0.2
12294	-0.001597	0.058404	3.729209e-02	0.056221	0.07074
8	0.014730	0.011298	-0.077767	-0.001793	
-0.777078	-0.006082	-0.327332	-9.672333e-02		
-0.251199	1.000000		0.383060	-0.002475	

0.011298	0.159124	0.007150	-0.005095	0.035655
-0.447582	-0.239174		0.235095	-0.07776
7	0.057131			
Packet Length Variance	-0.262115	0.154928		0.012250
0.385569	0.086847		0.480981	
0.006204	-0.062247	-0.040741		0.2
50416	0.790272	0.008773		0.84552
0	0.805126	-0.121557	0.053435	0.080881
0.151247	-0.000253	0.148945	0.066529	0.091870
42088	-0.000236	0.205286	1.152423e-01	0.180569
0	0.036337	0.012505	-0.011256	-0.001021
-0.118844	0.003299	-0.062791	6.110709e-02	
-0.032873	0.383060		1.000000	-0.000378
0.012505	0.434226	0.060551	0.024543	0.152003
-0.067009	-0.040741		0.845520	-0.01125
6	0.012250			
SYN Flag Count	-0.130824	0.006008		0.000102
0.022343	-0.003217		-0.000007	
-0.008261	-0.007311		-0.007775	-0.
002531	-0.000021	-0.000025		-0.0000
23	-0.000020	-0.001664	0.004705	0.005738
0.006367	-0.000005	0.006025	0.008512	0.007154
06388	-0.000004	0.004467	1.778118e-02	0.016034
0	0.034708	-0.000020	0.000439	0.000004
-0.001699	0.016876	-0.007311	-8.237727e-03	
-0.007702	-0.002475		-0.000378	1.000000
-0.000020	-0.000028	0.162325	-0.000033	0.005218
-0.006444	-0.007775		-0.000023	0.00043
9	0.000102			
RST Flag Count	-0.357655	0.062633		0.000169
0.051283	-0.007576		0.004617	
-0.018166	-0.019843	-0.019245		0.
010605	0.030068	0.102478		0.0605
49	0.030553	-0.004378	0.017103	0.033632
0.059618	-0.000007	0.061570	0.029320	0.042287
58074	0.002073	0.084265	1.032559e-01	0.127489
4	0.051108	1.000000	0.001199	0.000012
-0.004457	0.003313	-0.019952	-1.753993e-02	
-0.018588	0.011298		0.012505	-0.000020
1.000000	-0.000076	0.468436	0.021381	0.071074
-0.015809	-0.019245		0.060549	0.00119
9	0.000169			
ACK Flag Count	-0.497734	0.120098		0.003208
0.365805	-0.000249		0.228379	
-0.002209	-0.027817	-0.023923		0.
076158	0.654683	-0.000095		0.5472
77	0.687552	-0.008774	0.043519	0.073494
0.134299	-0.000019	0.101203	0.052527	0.074595
10589	-0.000018	0.152266	1.092265e-01	0.144306
1	0.099604	-0.000076	0.001669	0.000018
-0.008598	0.120510	-0.027817	3.798268e-02	
-0.018458	0.159124		0.434226	-0.000028
-0.000076	1.000000	0.004581	-0.000124	0.204464
-0.017649	-0.023923		0.547277	0.00166
9	0.003208			
URG Flag Count	-0.763509	0.116778		-0.000442

0.105149		-0.016497		0.008401	
-0.042521		-0.042520		-0.043240	0.
004103		0.030583		0.050199	0.0541
17		0.031913	-0.009486	0.045040	0.061191
0.083525	0.004181	0.114835	0.085321	0.075842	0.0
81120	0.000948	0.172205	2.725651e-01	0.220570	0.16818
0	0.133247	0.468436	0.002561		0.000026
-0.009411	0.461540		-0.042654	-4.097240e-02	
-0.042543	0.007150		0.060551	0.162325	
0.468436	0.004581	1.000000	0.768347	0.606423	
-0.035960		-0.043240	0.054117	0.00256	
1	-0.000442				
CWE Flag Count		-0.586640	-0.001304	-0.000967	
0.055806		-0.014371		0.006908	
-0.036778		-0.032739	-0.034688		-0.
010314		0.014042	0.002879		0.0274
75		0.013459	-0.007976	-0.000893	-0.001186
-0.001025	0.005456	-0.001820	-0.002383	-0.002231	-0.
001966	0.001249	0.000086	8.174485e-04	0.000589	0.0002
82	0.122798	0.021381	0.001967		0.000020
-0.007858	0.595106		-0.032774	-3.519728e-02	
-0.033683	-0.005095		0.024543	-0.000033	
0.021381	-0.000124	0.768347	1.000000	0.694285	
-0.028320		-0.034688	0.027475	0.00196	
7	-0.000967				
Down/Up Ratio		-0.564844	0.061861	-0.000060	
0.205910		-0.014806		0.087197	
-0.038792		-0.040366	-0.041726		0.
003688		0.179847	0.314965		0.2294
29		0.137802	-0.013223	0.025172	0.036623
0.059813	0.002427	0.048844	0.035442	0.036854	0.0
46152	0.000543	0.102653	1.467458e-01	0.132243	0.12310
2	0.239063	0.071074	0.002413		-0.060631
-0.013025	0.567596		-0.040399	-2.651769e-02	
-0.038333	0.035655		0.152003	0.005218	
0.071074	0.204464	0.606423	0.694285	1.000000	
-0.032937		-0.041726	0.229429	0.00241	
3	-0.000060				
Average Packet Size		0.041623	-0.092510	-0.032205	
-0.012372		-0.056550		0.000039	
0.932394		0.987944	0.970341		-0.4
56354		-0.007723	-0.018429		-0.00785
8		-0.006673	0.335029	-0.120307	-0.109346
-0.096589	-0.001014	-0.092349	-0.117027	-0.106653	-0.
096397	-0.000889	-0.010101	-1.203664e-02	-0.010324	-0.0090
19	-0.012551	-0.015809	0.033745	0.003369	
0.329446	-0.020336	0.987938	9.291985e-01		
0.973713	-0.447582		-0.067009	-0.006444	
-0.015809	-0.017649	-0.035960	-0.028320	-0.032937	
1.000000		0.970341	-0.007858	0.033745	
-0.032205					
Avg Fwd Segment Size		0.051415	-0.047365	-0.016347	
-0.017945		0.105403		-0.005415	
0.990876		0.995452	1.000000		-0.2
42207	-0.015248		-0.024027		-0.01817
1	-0.014060	0.142557	-0.064184	-0.060694	

-0.054001	-0.001021	-0.046940	-0.063590	-0.059629	-0.
053498	-0.000863	-0.013045	-1.471064e-02	-0.013100	-0.0120
47	-0.015766	-0.019245	0.010576	0.004282	
0.141675	-0.024580	0.995435	9.868779e-01		
0.999737	-0.239174	-0.040741	-0.007775		
-0.019245	-0.023923	-0.043240	-0.034688	-0.041726	
0.970341	1.000000	-0.018171	0.010576		
-0.016347					
Avg Bwd Segment Size	-0.313784	0.122868	0.003786		
0.430852	0.003540	0.519706			
0.004406	-0.022756	-0.018171	0.0		
79704	0.859384	0.255009	1.000000		
0	0.897956	-0.007553	0.020289	0.053713	
0.129771	0.000141	0.110673	0.030041	0.059232	0.1
10954	-0.000013	0.188641	1.238104e-01	0.186357	0.23858
7	0.114508	0.060549	0.001374	-0.035266	
-0.007388	0.006735	-0.022787	6.483348e-02		
-0.004749	0.235095	0.845520	-0.000023		
0.060549	0.547277	0.054117	0.027475	0.229429	
-0.007858	-0.018171	1.000000	0.00137		
4	0.003786				
Fwd Header Length.1	-0.003152	-0.031809	-0.014944		
0.001213	-0.141908	0.000414			
-0.000594	0.019460	0.010576	-0.		
077476	0.001273	0.001385	0.0013		
74	0.001231	0.066101	-0.018397	-0.013904	
-0.013812	-0.000366	-0.031935	-0.017495	-0.013428	-0.
013902	-0.000374	0.000862	9.468536e-04	0.000881	0.0008
29	0.000954	0.001199	1.000000	0.000330	
0.064386	0.001390	0.019459	-5.144867e-04		
0.011396	-0.077767	-0.011256	0.000439		
0.001199	0.001669	0.002561	0.001967	0.002413	
0.033745	0.010576	0.001374	1.000000		
-0.014944					
Subflow Fwd Packets	-0.052613	0.177593	1.000000		
0.378156	0.100147	0.006473			
-0.008334	-0.022467	-0.016347	0.		
056254	0.004470	-0.000455	0.0037		
86	0.004063	-0.048719	0.014236	0.011691	
0.017202	0.000051	0.178056	0.013871	0.011488	0.0
17228	0.000056	0.238957	1.532800e-02	0.018378	0.03189
5	0.004088	0.000169	-0.014944	0.000092	
-0.047637	-0.000661	-0.022467	-8.040745e-03		
-0.016848	0.057131	0.012250	0.000102		
0.000169	0.003208	-0.000442	-0.000967	-0.000060	
-0.032205	-0.016347	0.003786	-0.01494		
4	1.000000				
Subflow Fwd Bytes	0.015405	0.208740	0.100147		
0.005449	1.000000	0.010030			
0.178769	0.045285	0.105403	0.4		
75236	0.008176	-0.010365	0.00354		
0	0.007508	-0.418901	0.120610	0.092590	
0.096587	0.000044	0.209431	0.115079	0.089738	0.0
97011	0.000107	-0.001350	-3.475692e-03	-0.001767	-0.00045
4	-0.006035	-0.007576	-0.141908	0.001851	
-0.408115	-0.010117	0.045266	1.785030e-01		

0.100012	0.479438		0.086847	-0.003217
-0.007576	-0.000249	-0.016497	-0.014371	-0.014806
-0.056550	0.105403		0.003540	-0.14190
8	0.100147			
Subflow Bwd Packets	-0.378916	0.301313		0.378156
1.000000	0.005449		0.628670	
0.000268	-0.020212	-0.017945		0.0
46654	0.481160	0.051550		0.43085
2	0.430120	-0.006571	0.028876	0.052724
0.117466	0.000166	0.296668	0.051385	0.064652
12273	0.000070	0.464928	1.872096e-01	0.208517
0	0.058023	0.051283	0.001213	-0.008880
-0.006434	0.048469	-0.020242	2.930112e-02	
-0.012547	0.113753		0.385569	0.022343
0.051283	0.365805	0.105149	0.055806	0.205910
-0.012372	-0.017945		0.430852	0.00121
3	0.378156			
Subflow Bwd Bytes	-0.120114	0.056637		0.006473
0.628670	0.010030		1.000000	
0.009106	-0.006893	-0.005415		0.0
30418	0.438179	0.008474		0.51970
6	0.405266	-0.002232	0.005985	0.019031
0.053105	-0.000002	0.055055	0.011090	0.024662
50995	-0.000004	0.090843	3.813529e-02	0.070304
9	0.016611	0.004617	0.000414	-0.001129
-0.002183	0.003095	-0.006896	3.827942e-02	
0.002596	0.115047		0.480981	-0.000007
0.004617	0.228379	0.008401	0.006908	0.087197
0.000039	-0.005415		0.519706	0.000414
0.006473				
Init_Win_bytes_forward	-0.412909	0.110737		0.002362
0.261546	-0.001166		0.159175	
-0.002703	-0.023071	-0.019574		0.
065964	0.548837	0.000344		0.5180
51	0.638852	-0.007292	0.044841	0.077283
0.132696	0.000581	0.093981	0.060115	0.080264
08241	-0.000006	0.127627	1.067064e-01	0.133814
0	0.084231	0.004092	0.001385	0.000015
-0.007150	0.118052	-0.023077	3.156903e-02	
-0.014499	0.143056		0.363877	0.000128
0.004092	0.797508	0.025356	0.013699	0.115136
-0.014090	-0.019574		0.518051	0.00138
5	0.002362			
Init_Win_bytes_backward	-0.254691	0.058707		0.000150
0.060685	-0.005476		0.008884	
-0.013690	-0.014230	-0.014597		0.
002748	0.030030	0.011311		0.0306
86	0.029964	-0.004564	0.047303	0.063402
0.079661	0.000985	0.042309	0.057413	0.062936
62810	0.000015	0.050100	8.432045e-02	0.068854
3	0.076772	0.019184	0.000854	0.000009
-0.004475	0.068316	-0.014234	-1.221575e-02	
-0.014198	0.005702		0.028624	0.155757
0.019184	0.387408	0.080957	0.036208	0.187354
-0.012033	-0.014597		0.030686	0.00085
4	0.000150			

act_data_pkt_fwd	0.004267	0.217233	0.104060
0.015405	0.965321	0.016433	
-0.059923	-0.196263	-0.136734	0.
541544	0.015170	-0.004752	0.0092
69	0.012701	-0.461071	0.133352
0.106967	0.000500	0.217888	0.128966
07405	0.000548	0.009223	6.938223e-03
2	-0.002705	-0.002498	-0.144057
-0.449796	-0.007090	-0.196265	-5.886823e-02
-0.142042	0.545638	0.094670	-0.002271
-0.002498	0.007981	-0.008310	-0.010094
-0.291942	-0.136734	0.009269	-0.14405
7	0.104060		
min_seg_size_forward	-0.004037	-0.014477	-0.004608
0.001547	-0.046839	0.000530	
-0.012403	-0.002471	-0.006816	-0.
038066	0.001623	0.001693	0.0017
39	0.001577	0.033857	-0.010403
-0.006671	-0.002163	-0.014567	-0.009798
006753	-0.002173	0.001104	1.212665e-03
62	0.001213	0.001536	0.780803
0.032629	0.001779	-0.002471	-1.226747e-02
-0.006273	-0.037617	-0.004741	0.000562
0.001536	0.002138	0.003279	0.002520
0.004464	-0.006816	0.001739	0.780803
-0.004608			
Active Mean	-0.111121	0.121251	0.006821
0.153132	-0.001561	0.002400	
-0.005082	-0.004953	-0.005185	-0.
000483	0.009286	0.000076	0.0052
48	0.008148	-0.001889	0.052574
0.065875	0.183567	0.115541	0.052174
60698	0.183562	0.122709	4.860981e-02
1	0.003817	0.001800	0.000351
-0.001848	-0.000006	-0.004953	-4.547897e-03
-0.005103	0.000386	0.005887	-0.000006
0.001800	0.065144	0.010937	-0.000026
-0.004406	-0.005185	0.005248	0.00035
1	0.006821		
Active Std	-0.041630	0.087510	0.000158
0.028658	-0.000377	0.003339	
-0.001868	-0.002241	-0.002264	0.
000964	0.013811	-0.000008	0.0077
76	0.011425	-0.000804	0.031965
0.062419	0.038036	0.051165	0.022938
29911	0.038035	0.091625	7.490759e-02
7	0.008700	0.003643	0.000149
-0.000786	-0.000006	-0.002241	-8.746352e-04
-0.002179	0.002413	0.009930	-0.000002
0.003643	0.064232	0.002718	-0.000011
-0.001910	-0.002264	0.007776	0.00014
9	0.000158		
Active Max	-0.113547	0.132646	0.006551
0.150921	-0.001536	0.002828	
-0.005182	-0.005121	-0.005349	-0.
000304	0.011134	0.000072	0.0062

61	0.009653	-0.001950	0.056530	0.039034
0.073741	0.184580	0.121475	0.054709	0.036005
63677	0.184575	0.132174	5.846593e-02	0.067116
2	0.005036	0.002293	0.000363	0.000004
-0.001907	-0.000007	-0.005122	-4.511590e-03	
-0.005256	0.000756		0.007243	-0.000006
0.002293	0.072489	0.010885	-0.000027	0.025234
-0.004546	-0.005349		0.006261	0.00036
3	0.006551			
Active Min		-0.106332	0.107871	0.006917
0.151066		-0.001547		0.001881
-0.004870		-0.004670	-0.004905	-0.
000667	0.007139		0.000079	0.0040
28	0.006373	-0.001786	0.047715	0.029416
0.056395	0.178915	0.108163	0.048829	0.030743
56580	0.178910	0.109529	3.682170e-02	0.042849
1	0.002425	0.001221	0.000332	0.000003
-0.001747	-0.000006	-0.004670	-4.492045e-03	
-0.004834	-0.000024		0.004269	-0.000006
0.001221	0.055561	0.010614	-0.000025	0.003836
-0.004166	-0.004905		0.004028	0.00033
2	0.006917			
Idle Mean		-0.153304	0.752832	0.001488
0.094378		0.006107		0.050728
0.001629		-0.002461	-0.002084	0.0
08870	0.123896		0.007574	0.09893
0	0.111897	-0.005370	0.864268	0.917809
0.954601	0.046002	0.753369	0.893574	0.936403
56568	0.046001	0.429979	4.148340e-01	0.493570
5	0.015288	0.060653	0.000869	0.000010
-0.005251	-0.000048	-0.002464	1.055428e-02	
-0.000923	0.026573		0.112347	-0.000017
0.060653	0.061447	0.086486	-0.000074	0.049714
-0.002884	-0.002084		0.098930	0.00086
9	0.001488			
Idle Std		-0.039880	0.425663	0.000515
0.008286		0.017965		0.001232
0.012869	0.011984		0.012330	-0.0
00267	0.004942		-0.000024	0.00350
8	0.004605	-0.002288	0.333846	0.304181
0.400850	0.070411	0.423275	0.325171	0.297181
98876	0.070409	0.038233	6.127707e-02	0.065792
6	0.002267	0.010351	0.000409	0.000004
-0.002238	-0.000022	0.011984	1.312476e-02	
0.012261	-0.000014		0.007359	-0.000007
0.010351	0.007294	0.014143	-0.000032	0.006930
0.007198	0.012330		0.003508	0.000409
0.000515				
Idle Max		-0.150600	0.780531	0.001492
0.090145		0.008770		0.048161
0.003562		-0.000401	-0.000003	0.0
08231	0.117817		0.007169	0.09402
9	0.106415	-0.005426	0.870275	0.916109
0.966487	0.053425	0.780869	0.896350	0.932503
68219	0.053424	0.410794	3.986990e-01	0.473821
3	0.014699	0.058477	0.000883	0.000010

-0.005307	-0.000048	-0.000404	1.203804e-02	
0.001089	0.025027	0.107045	-0.000017	
0.058477	0.058921	0.083192	-0.000075	0.047773
-0.001574	-0.000003	0.094029		0.00088
3	0.001492			
Idle Min		-0.152254	0.721131	0.001460
0.095586		0.004067		0.051872
0.000095	-0.003959		-0.003623	0.0
09050	0.126461		0.007770	0.10101
1	0.114169	-0.005223	0.846902	0.906166
0.933446	0.037125	0.721927	0.877827	0.925997
35670	0.037125	0.435658	4.173769e-01	0.498111
1	0.015407	0.061082	0.000839	0.000010
-0.005108	-0.000046	-0.003963	9.222057e-03	
-0.002421	0.027191		0.114067	-0.000016
0.061082	0.062222	0.086561	-0.000072	0.050233
-0.003818	-0.003623		0.101011	0.00083
9	0.001460			
Inbound		0.418577	-0.155448	-0.000022
-0.152386		0.016679		-0.083783
0.028157	0.030382		0.031633	-0.0
02765	-0.201313		-0.368835	-0.23331
7	-0.157146	0.000503	-0.076352	-0.090764
-0.123125	-0.055670	-0.152280	-0.101302	-0.100342
119337	-0.053039	-0.151275	-1.974750e-01	-0.178382
43	-0.169239	-0.258919	-0.003240	0.065836
0.000700	-0.111102	0.030401	1.487792e-02	
0.028895	-0.032565		-0.150884	-0.091329
-0.258919	-0.122872	-0.383378	-0.225204	-0.396353
0.022191	0.031633		-0.233317	-0.003240
-0.000022				

Subflow	Fwd Bytes	Subflow	Bwd Packets	Sub
flow Bwd Bytes	Init_Win_bytes_forward	Init_Win_bytes_backward	act_data_	
pkt_fwd	min_seg_size_forward	Active Mean	Active Std	Active Max
ve Min	Idle Mean	Idle Std	Idle Max	Idle Min
Protocol		Inbound		
	0.015405		-0.378916	
-0.120114	-0.412909	-0.254691		0.0042
67	-0.004037	-0.111121	-0.041630	-0.113547
2	-0.153304	-0.039880	-0.150600	-0.152254
			0.418577	
Flow Duration		0.208740		0.301313
0.056637	0.110737		0.058707	0.21723
3	-0.014477	0.121251	0.087510	0.132646
0.752832	0.425663	0.780531	0.721131	-0.155448
Total Fwd Packets		0.100147		0.378156
0.006473	0.002362		0.000150	0.10406
0	-0.004608	0.006821	0.000158	0.006551
0.001488	0.000515	0.001492	0.001460	-0.000022
Total Backward Packets		0.005449		1.000000
0.628670	0.261546		0.060685	0.01540
5	0.001547	0.153132	0.028658	0.150921
0.094378	0.008286	0.090145	0.095586	-0.152386
Total Length of Fwd Packets		1.000000		0.005449
0.010030	-0.001166		-0.005476	0.96532
1	-0.046839	-0.001561	-0.000377	-0.001536
0.006107	0.017965	0.008770	0.004067	0.016679

Total Length of Bwd Packets		0.010030	0.628670
1.000000	0.159175	0.008884	0.01643
3	0.000530 0.002400	0.003339 0.002828	0.001881
0.050728	0.001232 0.048161 0.051872	-0.083783	
Fwd Packet Length Max		0.178769	0.000268
0.009106	-0.002703	-0.013690	-0.05992
3	-0.012403 -0.005082	-0.001868 -0.005182	-0.004870
0.001629	0.012869 0.003562 0.000095	0.028157	
Fwd Packet Length Min		0.045285	-0.020212
-0.006893	-0.023071	-0.014230	-0.1962
63	-0.002471 -0.004953	-0.002241 -0.005121	-0.00467
0	-0.002461 0.011984 -0.000401	-0.003959 0.030382	
Fwd Packet Length Mean		0.105403	-0.017945
-0.005415	-0.019574	-0.014597	-0.1367
34	-0.006816 -0.005185	-0.002264 -0.005349	-0.00490
5	-0.002084 0.012330 -0.000003	-0.003623 0.031633	
Fwd Packet Length Std		0.475236	0.046654
0.030418	0.065964	0.002748	0.54154
4	-0.038066 -0.000483	0.000964 -0.000304	-0.000667
0.008870	-0.000267 0.008231 0.009050	-0.002765	
Bwd Packet Length Max		0.008176	0.481160
0.438179	0.548837	0.030030	0.01517
0	0.001623 0.009286	0.013811 0.011134	0.007139
0.123896	0.004942 0.117817 0.126461	-0.201313	
Bwd Packet Length Min		-0.010365	0.051550
0.008474	0.000344	0.011311	-0.00475
2	0.001693 0.000076	-0.000008 0.000072	0.000079
0.007574	-0.000024 0.007169 0.007770	-0.368835	
Bwd Packet Length Mean		0.003540	0.430852
0.519706	0.518051	0.030686	0.00926
9	0.001739 0.005248	0.007776 0.006261	0.004028
0.098930	0.003508 0.094029 0.101011	-0.233317	
Bwd Packet Length Std		0.007508	0.430120
0.405266	0.638852	0.029964	0.01270
1	0.001577 0.008148	0.011425 0.009653	0.006373
0.111897	0.004605 0.106415 0.114169	-0.157146	
Flow Packets/s		-0.418901	-0.006571
-0.002232	-0.007292	-0.004564	-0.4610
71	0.033857 -0.001889	-0.000804 -0.001950	-0.00178
6	-0.005370 -0.002288 -0.005426	-0.005223 0.000503	
Flow IAT Mean		0.120610	0.028876
0.005985	0.044841	0.047303	0.13335
2	-0.010403 0.052574	0.031965 0.056530	0.047715
0.864268	0.333846 0.870275 0.846902	-0.076352	
Flow IAT Std		0.092590	0.052724
0.019031	0.077283	0.063402	0.10524
9	-0.007686 0.034578	0.033827 0.039034	0.029416
0.917809	0.304181 0.916109 0.906166	-0.090764	
Flow IAT Max		0.096587	0.117466
0.053105	0.132696	0.079661	0.10696
7	-0.006671 0.065875	0.062419 0.073741	0.056395
0.954601	0.400850 0.966487 0.933446	-0.123125	
Flow IAT Min		0.000044	0.000166
-0.000002	0.000581	0.000985	0.0005
00	-0.002163 0.183567	0.038036 0.184580	0.17891
5	0.046002 0.070411 0.053425	0.037125 -0.055670	

Fwd IAT Total				0.209431		0.296668
0.055055		0.093981		0.042309		0.21788
8	-0.014567	0.115541	0.051165	0.121475		0.108163
0.753369	0.423275	0.780869	0.721927	-0.152280		
Fwd IAT Mean			0.115079			0.051385
0.011090		0.060115		0.057413		0.12896
6	-0.009798	0.052174	0.022938	0.054709		0.048829
0.893574	0.325171	0.896350	0.877827	-0.101302		
Fwd IAT Std			0.089738			0.064652
0.024662		0.080264		0.062936		0.10275
8	-0.007385	0.033651	0.020282	0.036005		0.030743
0.936403	0.297181	0.932503	0.925997	-0.100342		
Fwd IAT Max			0.097011			0.112273
0.050995		0.108241		0.062810		0.10740
5	-0.006753	0.060698	0.029911	0.063677		0.056580
0.956568	0.398876	0.968219	0.935670	-0.119337		
Fwd IAT Min			0.000107			0.000070
-0.000004		-0.000006		0.000015		0.00005
48	-0.002173	0.183562	0.038035	0.184575		0.17891
0	0.046001	0.070409	0.053424	0.037125	-0.053039	
Bwd IAT Total			-0.001350			0.464928
0.090843		0.127627		0.050100		0.00922
3	0.001104	0.122709	0.091625	0.132174		0.109529
0.429979	0.038233	0.410794	0.435658	-0.151275		
Bwd IAT Mean			-0.003476			0.187210
0.038135		0.106706		0.084320		0.00693
8	0.001213	0.048610	0.074908	0.058466		0.036822
0.414834	0.061277	0.398699	0.417377	-0.197475		
Bwd IAT Std			-0.001767			0.208517
0.070304		0.133814		0.068854		0.00721
7	0.001128	0.056122	0.084723	0.067116		0.042849
0.493570	0.065792	0.473821	0.498111	-0.178382		
Bwd IAT Max			-0.000454			0.260970
0.104949		0.153090		0.060093		0.00813
2	0.001062	0.079131	0.104617	0.092192		0.062941
0.519275	0.058076	0.497443	0.525541	-0.157543		
Bwd IAT Min			-0.006035			0.058023
0.016611		0.084231		0.076772		-0.00270
5	0.001213	0.003817	0.008700	0.005036		0.002425
0.015288	0.002267	0.014699	0.015407	-0.169239		
Fwd PSH Flags			-0.007576			0.051283
0.004617		0.004092		0.019184		-0.00249
8	0.001536	0.001800	0.003643	0.002293		0.001221
0.060653	0.010351	0.058477	0.061082	-0.258919		
Fwd Header Length			-0.141908			0.001213
0.000414		0.001385		0.000854		-0.14405
7	0.780803	0.000351	0.000149	0.000363		0.000332
0.000869	0.000409	0.000883	0.000839	-0.003240		
Bwd Header Length			0.001851			-0.008880
-0.001129		0.000015		0.000009		0.00008
70	0.000830	0.000004	0.000002	0.000004		0.00000
3	0.000010	0.000004	0.000010	0.000010	0.065836	
Fwd Packets/s			-0.408115			-0.006434
-0.002183		-0.007150		-0.004475		-0.4497
96	0.032629	-0.001848	-0.000786	-0.001907		-0.00174
7	-0.005251	-0.002238	-0.005307	-0.005108	0.000700	

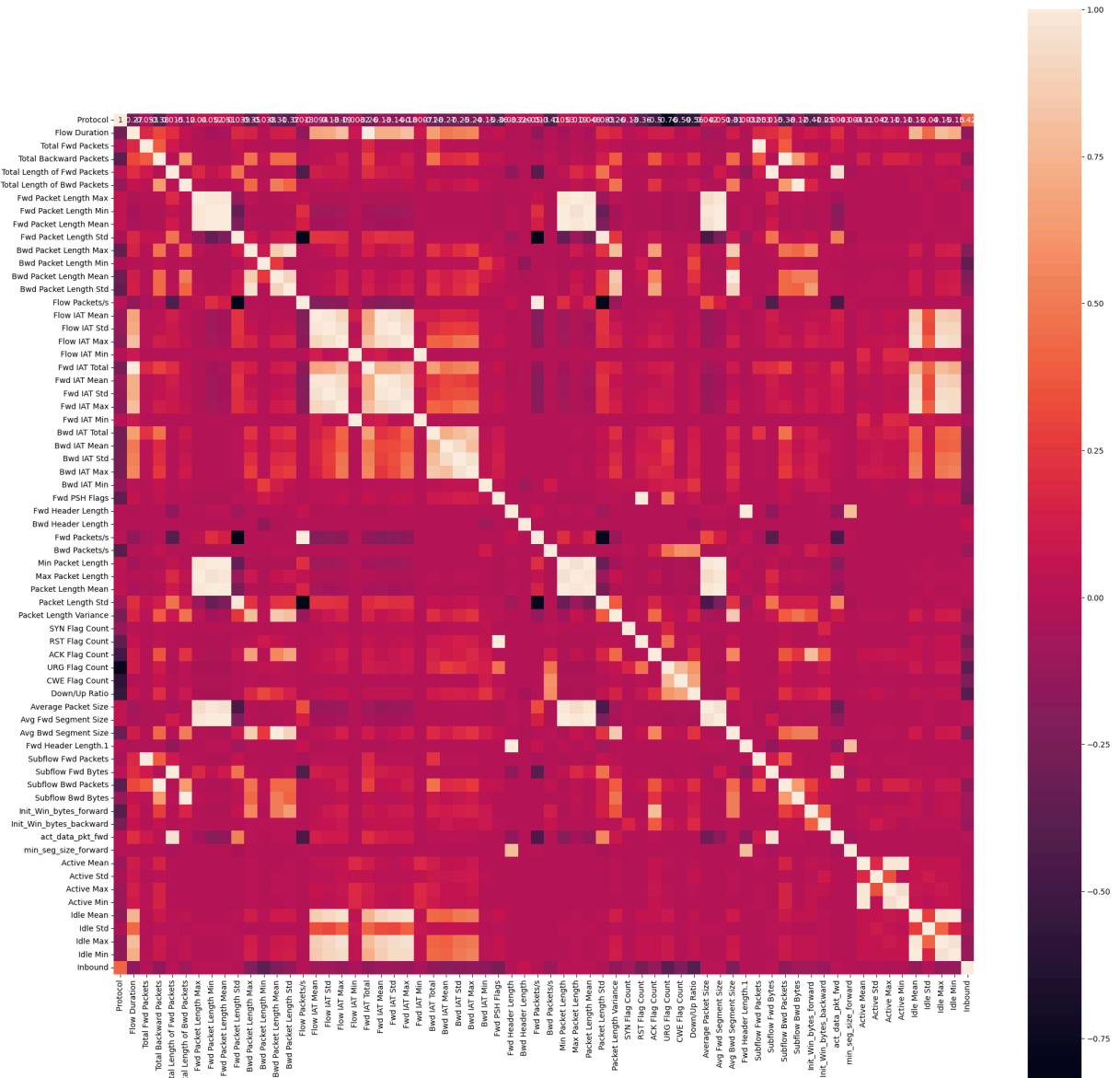
Bwd Packets/s			-0.010117		0.048469
0.003095		0.118052		0.068316	-0.00709
0	0.001779	-0.000006	-0.000006	-0.000007	-0.000006
-0.000048	-0.000022	-0.000048	-0.000046	-0.111102	
Min Packet Length			0.045266		-0.020242
-0.006896		-0.023077		-0.014234	-0.1962
65	-0.002471	-0.004953	-0.002241	-0.005122	-0.00467
0	-0.002464	0.011984	-0.000404	-0.003963	0.030401
Max Packet Length			0.178503		0.029301
0.038279		0.031569		-0.012216	-0.05886
8	-0.012267	-0.004548	-0.000875	-0.004512	-0.004492
0.010554	0.013125	0.012038	0.009222	0.014878	
Packet Length Mean			0.100012		-0.012547
0.002596		-0.014499		-0.014198	-0.14204
2	-0.006273	-0.005103	-0.002179	-0.005256	-0.004834
-0.000923	0.012261	0.001089	-0.002421	0.028895	
Packet Length Std			0.479438		0.113753
0.115047		0.143056		0.005702	0.54563
8	-0.037617	0.000386	0.002413	0.000756	-0.000024
0.026573	-0.000014	0.025027	0.027191	-0.032565	
Packet Length Variance			0.086847		0.385569
0.480981		0.363877		0.028624	0.09467
0	-0.004741	0.005887	0.009930	0.007243	0.004269
0.112347	0.007359	0.107045	0.114067	-0.150884	
SYN Flag Count			-0.003217		0.022343
-0.000007		0.000128		0.155757	-0.0022
71	0.000562	-0.000006	-0.000002	-0.000006	-0.00000
6	-0.000017	-0.000007	-0.000017	-0.000016	-0.091329
RST Flag Count			-0.007576		0.051283
0.004617		0.004092		0.019184	-0.00249
8	0.001536	0.001800	0.003643	0.002293	0.001221
0.060653	0.010351	0.058477	0.061082	-0.258919	
ACK Flag Count			-0.000249		0.365805
0.228379		0.797508		0.387408	0.00798
1	0.002138	0.065144	0.064232	0.072489	0.055561
0.061447	0.007294	0.058921	0.062222	-0.122872	
URG Flag Count			-0.016497		0.105149
0.008401		0.025356		0.080957	-0.00831
0	0.003279	0.010937	0.002718	0.010885	0.010614
0.086486	0.014143	0.083192	0.086561	-0.383378	
CWE Flag Count			-0.014371		0.055806
0.006908		0.013699		0.036208	-0.01009
4	0.002520	-0.000026	-0.000011	-0.000027	-0.000025
-0.000074	-0.000032	-0.000075	-0.000072	-0.225204	
Down/Up Ratio			-0.014806		0.205910
0.087197		0.115136		0.187354	-0.00592
8	0.003041	0.015083	0.068642	0.025234	0.003836
0.049714	0.006930	0.047773	0.050233	-0.396353	
Average Packet Size			-0.056550		-0.012372
0.000039		-0.014090		-0.012033	-0.29194
2	0.004464	-0.004406	-0.001910	-0.004546	-0.004166
-0.002884	0.007198	-0.001574	-0.003818	0.022191	
Avg Fwd Segment Size			0.105403		-0.017945
-0.005415		-0.019574		-0.014597	-0.1367
34	-0.006816	-0.005185	-0.002264	-0.005349	-0.00490
5	-0.002084	0.012330	-0.000003	-0.003623	0.031633

Avg Bwd Segment Size		0.003540	0.430852
0.519706	0.518051	0.030686	0.00926
9	0.001739	0.005248	0.007776
0.098930	0.003508	0.094029	0.101011
Fwd Header Length.1		-0.233317	
		-0.141908	0.001213
0.000414	0.001385	0.000854	-0.14405
7	0.780803	0.000351	0.000149
0.000869	0.000409	0.000883	0.000839
Subflow Fwd Packets		-0.003240	
		0.100147	0.378156
0.006473	0.002362	0.000150	0.10406
0	-0.004608	0.006821	0.000158
0.001488	0.000515	0.001492	0.001460
Subflow Fwd Bytes		-0.000022	
		1.000000	0.005449
0.010030	-0.001166	-0.005476	0.96532
1	-0.046839	-0.001561	-0.000377
0.006107	0.017965	0.008770	0.004067
Subflow Bwd Packets		0.016679	
		0.005449	1.000000
0.628670	0.261546	0.060685	0.01540
5	0.001547	0.153132	0.028658
0.094378	0.008286	0.090145	0.095586
Subflow Bwd Bytes		-0.152386	
		0.010030	0.628670
1.000000	0.159175	0.008884	0.01643
3	0.000530	0.002400	0.003339
0.050728	0.001232	0.048161	0.051872
Init_Win_bytes_forward		-0.083783	
		-0.001166	0.261546
0.159175	1.000000	0.397598	0.00512
7	0.001774	0.037435	0.022417
0.046450	0.003363	0.044324	0.047260
Init_Win_bytes_backward		-0.077066	
		-0.005476	0.060685
0.008884	0.397598	1.000000	-0.00333
4	0.001094	0.019173	0.110447
0.015559	0.012550	0.015945	0.014388
act_data_pkt_fwd		-0.107422	
		0.965321	0.015405
0.016433	0.005127	-0.003334	1.00000
0	-0.045506	-0.000575	0.000053
0.004860	0.003254	0.005137	0.004561
min_seg_size_forward		0.009192	
		-0.046839	0.001547
0.000530	0.001774	0.001094	-0.04550
6	1.000000	0.000450	0.000191
0.000993	0.000482	0.001011	0.000956
Active Mean		-0.003560	
		-0.001561	0.153132
0.002400	0.037435	0.019173	-0.00057
5	0.000450	1.000000	0.184102
0.066530	0.040766	0.068504	0.062364
Active Std		-0.021220	
		-0.000377	0.028658
0.003339	0.022417	0.110447	0.00005
3	0.000191	0.184102	1.000000
0.055725	0.105440	0.064686	0.044910
Active Max		-0.012702	
		-0.001536	0.150921
0.002828	0.039482	0.035719	-0.00050
6	0.000464	0.986862	0.339008
0.073160	0.056709	0.076646	0.067304
Active Min		-0.023139	
		-0.001547	0.151066
0.001881	0.034381	0.000977	-0.00061
3	0.000425	0.986176	0.018937
0.058270	0.023338	0.058684	0.055922
		-0.019401	

Idle Mean				0.006107		0.094378
0.050728		0.046450			0.015559	0.00486
0	0.000993	0.066530	0.055725	0.073160		0.058270
1.000000	0.270194	0.987704	0.994003	-0.128157		
Idle Std				0.017965		0.008286
0.001232		0.003363			0.012550	0.00325
4	0.000482	0.040766	0.105440	0.056709		0.023338
0.270194	1.000000	0.414758	0.166227	-0.029009		
Idle Max				0.008770		0.090145
0.048161		0.044324			0.015945	0.00513
7	0.001011	0.068504	0.064686	0.076646		0.058684
0.987704	0.414758	1.000000	0.965809	-0.125238		
Idle Min				0.004067		0.095586
0.051872		0.047260			0.014388	0.00456
1	0.000956	0.062364	0.044910	0.067304		0.055922
0.994003	0.166227	0.965809	1.000000	-0.127541		
Inbound				0.016679		-0.152386
-0.083783		-0.077066			-0.107422	0.0091
92	-0.003560	-0.021220	-0.012702	-0.023139		-0.01940
1	-0.128157	-0.029009	-0.125238	-0.127541	1.000000	

```
In [37]: fig, ax = plt.subplots(figsize=(25, 25))
sns.heatmap(corr_matrix,
            square=True,
            annot=True,
            ax=ax)

plt.show()
```

```
In [38]: threshold = 0.94

filtered_corr_matrix = corr_matrix[np.abs(corr_matrix)>threshold]
unstack_f_cm = filtered_corr_matrix.unstack().dropna().reset_index()

# remove self-correlations:
corr_pairs = unstack_f_cm[unstack_f_cm['level_0']!=unstack_f_cm['level_1']].

print(f'{len(corr_pairs)} correlations between columns with coeff. over {thr
# set columns to drop:
corr_columns_to_drop = []
for id, row in corr_pairs.iterrows():
    if not (row['level_0'] in corr_columns_to_drop) and not (row['level_1']
        corr_columns_to_drop.append(row['level_0'])

print(f'{len(corr_columns_to_drop)} columns to drop.')
data_df.drop(labels=corr_columns_to_drop, axis=1, inplace=True)
```

124 correlations between columns with coeff. over 0.94.
31 columns to drop.

```
In [39]: n_samples = 10000
```

```
In [40]: # choose indices from both classes:
benign_ids = data_df[data_df[' Label']=='BENIGN'].index
ddos_ids = data_df[data_df[' Label']=='DrDoS_SSDP'].index

ddos_samples_ids = np.random.choice(ddos_ids, (n_samples-763))
benign_samples_ids = np.array(benign_ids)
# merge chosen indices:
samples_ids = np.concatenate((ddos_samples_ids, benign_samples_ids))

selected_data_df = data_df.iloc[samples_ids]
selected_data_df[' Label'].value_counts()
```

```
Out[40]: Label
DrDoS_SSDP    9237
BENIGN         763
Name: count, dtype: int64
```

```
In [41]: y = np.array(selected_data_df[' Label'].astype('category').cat.codes.astype('int64'))
```

```
In [42]: n_features = 2

# Standardize all the features:
x = StandardScaler().fit_transform(np.array(selected_data_df.drop(columns=[' Label'], inplace=True)))

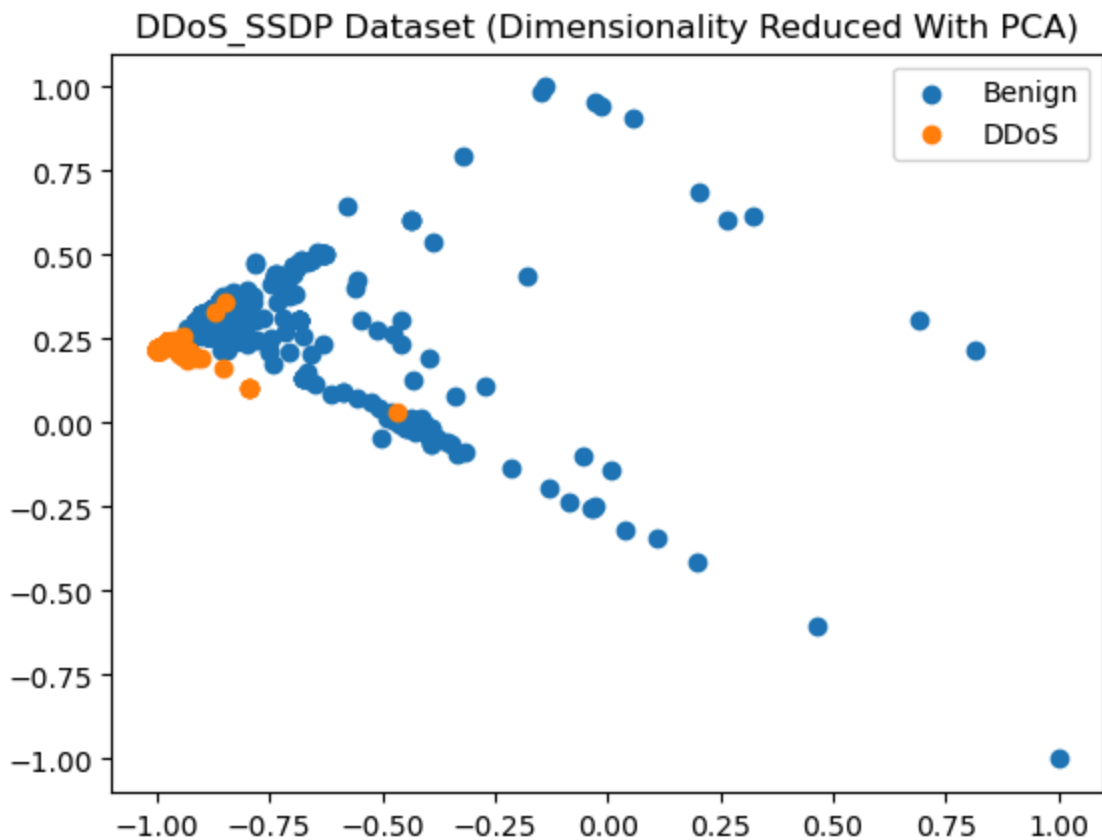
# PCA fitting and transforming the data:
pca = sklearn.decomposition.PCA(n_components=n_features)
pca.fit(x)
x = pca.transform(x)

# Normalize the output to the range (-1, +1):
minmax_scale = MinMaxScaler((-1, 1)).fit(x)
x = minmax_scale.transform(x)
x = x.astype(comp_dtype)

# Plot results:
for k in range(0, 2):
    x_axis_data = x[np.array(y) == k, 0]
    y_axis_data = x[np.array(y) == k, 1]
    label = 'Benign' if k == 0 else 'DDoS'
    print(f'{label}: {x_axis_data.shape}')
    plt.scatter(x_axis_data, y_axis_data, label=label)

plt.title("DDoS_SSDP Dataset (Dimensionality Reduced With PCA)")
plt.legend()
plt.show()
Benign: (763,)
DDoS: (9237,)
```

```
Benign: (763,)
DDoS: (9237,)
```



```
In [43]: # QML
import pennylane as qml

# ML
import tensorflow as tf
from tensorflow.keras.callbacks import ReduceLROnPlateau

# Data processing:
import numpy as np

# Utils
from sklearn.model_selection import train_test_split
from sklearn.metrics import classification_report, recall_score, confusion_m
from sklearn.metrics import f1_score, accuracy_score, precision_score, make_

# Visuals:
import matplotlib.pyplot as plt
import matplotlib.ticker as mtick
```

```
In [44]: # Set random seed:
GLOBAL_SEED = 419514
np.random.seed(GLOBAL_SEED)
tf.random.set_seed(GLOBAL_SEED)
# Computation data format:
comp_dtype = 'float32'
```

```
In [45]: # set ratio:
train_val_test_split = [0.7, 0.15, 0.15]
test_val_size = sum(train_val_test_split[1:])
```

```

val_size = train_val_test_split[2]/test_val_size

# split dataset:
trainX, testX, trainy, testy = train_test_split(x, y, stratify=y, test_size=
testX, valx, testy, valy = train_test_split(testX, testy, stratify=testy, te

# One-hot encode:
trainy = tf.one_hot(trainy, depth=n_features, dtype=comp_dtype)
testy = tf.one_hot(testy, depth=n_features, dtype=comp_dtype)
valy = tf.one_hot(valy, depth=n_features, dtype=comp_dtype)

```

```

In [46]: n_qubits = 2
         layers = 1
         data_dimension = n_features

         batch_size = 5
         n_epochs = 1

```

```

In [47]: dev = qml.device("default.qubit", wires=n_qubits)

@qml.qnode(dev)
def qnode(inputs, weights):
    qml.templates.AngleEmbedding(np.pi*inputs, wires=range(n_qubits))
    qml.templates.StronglyEntanglingLayers(weights, wires=range(n_qubits))

    return [qml.expval(qml.PauliZ(i)) for i in range(n_qubits)]

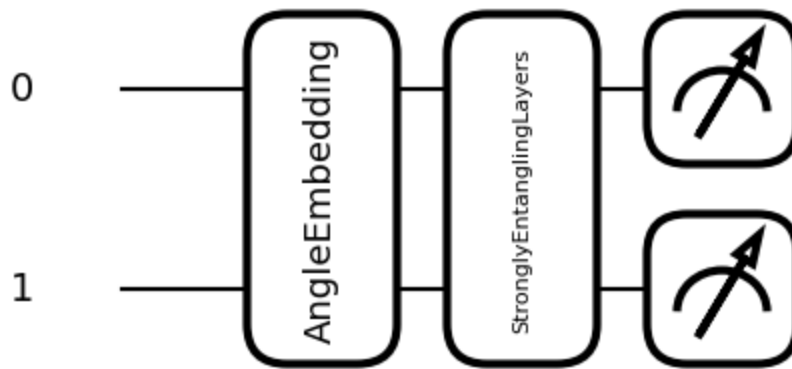
weight_shapes = {"weights": (layers,n_qubits,3)}

inputs = np.random.rand(n_qubits).astype(comp_dtype)
weights = np.random.rand(layers, n_qubits, 3).astype(comp_dtype)

plt.figure(figsize=(10,10))
qml.draw_mpl(qnode)(inputs, weights)
plt.show()

```

<Figure size 1000x1000 with 0 Axes>



```
In [48]: q_layer = qml.qnn.KerasLayer(qnode, weight_shapes, output_dim=n_qubits, dtype=complex64)
q_layer.build(2)

q_model = tf.keras.models.Sequential()
q_model.add(tf.keras.layers.Dense(n_qubits, activation='sigmoid', input_dim=n_qubits))
q_model.add(q_layer)
q_model.add(tf.keras.layers.Dense(data_dimension, activation='softmax'))

q_model.summary()
```

Model: "sequential_1"

Layer (type)	Output Shape	Param #
dense_2 (Dense)	(None, 2)	6
keras_layer_1 (KerasLayer)	(None, 2)	12
dense_3 (Dense)	(None, 2)	6

=====
Total params: 24
Trainable params: 24
Non-trainable params: 0
=====

```
In [ ]: opt = tf.keras.optimizers.Adam(learning_rate=0.05)
q_model.compile(loss='categorical_crossentropy', optimizer=opt, metrics=['accuracy'])

q_history = q_model.fit(trainX, trainy, validation_data=(testX, testy), epochs=100)
```

```

WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.
WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.
WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.
WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.
WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.
WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.
WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.
WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.
WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.
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1/1400 [.....] - ETA: 22:10 - loss: 1.2876 - accuracy: 0.0000e+00WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.
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3/1400 [.....] - ETA: 4:20 - loss: 1.0289 - accuracy: 0.0667
WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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4/1400 [.....] - ETA: 4:17 - loss: 0.9520 - accuracy: 0.0500WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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5/1400 [.....] - ETA: 4:47 - loss: 0.8889 - accuracy: 0.2000WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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7/1400 [.....] - ETA: 4:32 - loss: 0.7758 - accuracy: 0.4286
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8/1400 [.....] - ETA: 4:25 - loss: 0.7308 - accuracy: 0.5000WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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9/1400 [.....] - ETA: 4:20 - loss: 0.7089 - accuracy: 0.5333WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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10/1400 [.....] - ETA: 4:15 - loss: 0.6734 - accuracy: 0.5800
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12/1400 [.....] - ETA: 4:20 - loss: 0.6150 - accuracy: 0.6500

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13/1400 [.....] - ETA: 4:22 - loss: 0.5903 - accuracy: 0.6769

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14/1400 [.....] - ETA: 4:23 - loss: 0.5678 - accuracy: 0.7000WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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15/1400 [.....] - ETA: 4:23 - loss: 0.5634 - accuracy: 0.7067
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16/1400 [.....] - ETA: 4:25 - loss: 0.5595 - accuracy: 0.7125

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17/1400 [.....] - ETA: 4:28 - loss: 0.5396 - accuracy: 0.7294WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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18/1400 [.....] - ETA: 4:28 - loss: 0.5210 - accuracy: 0.7444WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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19/1400 [.....] - ETA: 4:26 - loss: 0.5036 - accu-  
racy: 0.7579WARNING:tensorflow:You are casting an input of type complex128 t  
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20/1400 [.....] - ETA: 4:24 - loss: 0.4871 - accuracy: 0.7700WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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21/1400 [.....] - ETA: 4:25 - loss: 0.4714 - accuracy: 0.7810

WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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22/1400 [.....] - ETA: 4:24 - loss: 0.4565 - accuracy: 0.7909

WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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24/1400 [.....] - ETA: 4:21 - loss: 0.4617 - accuracy: 0.7917
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25/1400 [.....] - ETA: 4:22 - loss: 0.4478 - accuracy: 0.8000WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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26/1400 [.....] - ETA: 4:21 - loss: 0.4346 - accuracy: 0.8077WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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27/1400 [.....] - ETA: 4:20 - loss: 0.4221 - accuracy: 0.8148
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29/1400 [.....] - ETA: 4:18 - loss: 0.3989 - accuracy: 0.8276WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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30/1400 [.....] - ETA: 4:20 - loss: 0.3882 - accuracy: 0.8333WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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31/1400 [.....] - ETA: 4:19 - loss: 0.3945 - accuracy: 0.8323WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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32/1400 [.....] - ETA: 4:18 - loss: 0.3843 - accuracy: 0.8375
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33/1400 [.....] - ETA: 4:17 - loss: 0.3745 - accuracy: 0.8424

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34/1400 [.....] - ETA: 4:16 - loss: 0.3982 - accuracy: 0.8353
WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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35/1400 [.....] - ETA: 4:18 - loss: 0.3884 - accuracy: 0.8400
WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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37/1400 [.....] - ETA: 4:17 - loss: 0.3859 - accuracy: 0.8432
WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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38/1400 [.....] - ETA: 4:16 - loss: 0.3771 - accuracy: 0.8474

WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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39/1400 [.....] - ETA: 4:16 - loss: 0.3688 - accuracy: 0.8513

WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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42/1400 [.....] - ETA: 4:16 - loss: 0.3600 - accuracy: 0.8571
WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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43/1400 [.....] - ETA: 4:17 - loss: 0.3528 - accuracy: 0.8605WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.
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44/1400 [.....] - ETA: 4:17 - loss: 0.3459 - accuracy: 0.8636WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.
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46/1400 [.....] - ETA: 4:18 - loss: 0.3459 - accuracy: 0.8652
WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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47/1400 [>.....] - ETA: 4:19 - loss: 0.3522 - accuracy: 0.8638
WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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48/1400 [>.....] - ETA: 4:20 - loss: 0.3583 - accuracy: 0.8625
WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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49/1400 [>.....] - ETA: 4:20 - loss: 0.3520 - accuracy: 0.8653
WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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51/1400 [>.....] - ETA: 4:22 - loss: 0.3402 - accuracy: 0.8706
WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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52/1400 [>.....] - ETA: 4:23 - loss: 0.3459 - accuracy: 0.8692
WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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54/1400 [>.....] - ETA: 4:21 - loss: 0.3451 - accuracy: 0.8704
WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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55/1400 [>.....] - ETA: 4:21 - loss: 0.3399 - accuracy: 0.8727

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56/1400 [>.....] - ETA: 4:21 - loss: 0.3348 - accuracy:


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 57/1400 [>.....] - ETA: 4:21 - loss: 0.3396 - accu
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59/1400 [>.....] - ETA: 4:20 - loss: 0.3395 - accuracy: 0.8746
WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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60/1400 [>.....] - ETA: 4:22 - loss: 0.3439 - accuracy: 0.8733WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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61/1400 [>.....] - ETA: 4:24 - loss: 0.3479 - accuracy: 0.8721WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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64/1400 [>.....] - ETA: 4:24 - loss: 0.3350 - accuracy: 0.8781
WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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65/1400 [>.....] - ETA: 4:24 - loss: 0.3388 - accuracy: 0.8769
WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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66/1400 [>.....] - ETA: 4:25 - loss: 0.3424 - accuracy: 0.8758
WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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68/1400 [>.....] - ETA: 4:25 - loss: 0.3413 - accu
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69/1400 [>.....] - ETA: 4:25 - loss: 0.3376 - accu
racy: 0.8783WARNING:tensorflow:You are casting an input of type complex128 t

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70/1400 [>.....] - ETA: 4:25 - loss: 0.3408 - accuracy: 0.8771
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71/1400 [>.....] - ETA: 4:26 - loss: 0.3373 - accuracy: 0.8789
WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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72/1400 [>.....] - ETA: 4:26 - loss: 0.3403 - accuracy: 0.8778

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73/1400 [>.....] - ETA: 4:26 - loss: 0.3369 - accuracy: 0.8795WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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74/1400 [>.....] - ETA: 4:27 - loss: 0.3336 - accuracy: 0.8811WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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75/1400 [>.....] - ETA: 4:27 - loss: 0.3304 - accuracy: 0.8827
WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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76/1400 [>.....] - ETA: 4:28 - loss: 0.3273 - accuracy: 0.8842
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77/1400 [>.....] - ETA: 4:28 - loss: 0.3242 - accuracy: 0.8857

WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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78/1400 [>.....] - ETA: 4:29 - loss: 0.3212 - accuracy: 0.8872

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80/1400 [>.....] - ETA: 4:29 - loss: 0.3212 - accuracy: 0.8875
WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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81/1400 [>.....] - ETA: 4:30 - loss: 0.3243 - accuracy: 0.8864
WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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82/1400 [>.....] - ETA: 4:29 - loss: 0.3213 - accuracy: 0.8878
WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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83/1400 [>.....] - ETA: 4:29 - loss: 0.3184 - accuracy: 0.8892
WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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85/1400 [>.....] - ETA: 4:29 - loss: 0.3127 - accuracy: 0.8918
WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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86/1400 [>.....] - ETA: 4:29 - loss: 0.3158 - accuracy: 0.8907WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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87/1400 [>.....] - ETA: 4:28 - loss: 0.3190 - accuracy: 0.8897WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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88/1400 [>.....] - ETA: 4:28 - loss: 0.3220 - accuracy: 0.8886WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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89/1400 [>.....] - ETA: 4:28 - loss: 0.3248 - accuracy: 0.8876

WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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90/1400 [>.....] - ETA: 4:28 - loss: 0.3277 - accuracy: 0.8867
WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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91/1400 [>.....] - ETA: 4:28 - loss: 0.3249 - accuracy: 0.8879
WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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92/1400 [>.....] - ETA: 4:28 - loss: 0.3223 - accu
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93/1400 [>.....] - ETA: 4:27 - loss: 0.3197 - accuracy: 0.8903
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94/1400 [=>.....] - ETA: 4:27 - loss: 0.3171 - accuracy: 0.8915

WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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95/1400 [=>.....] - ETA: 4:28 - loss: 0.3147 - accuracy: 0.8926

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98/1400 [=>.....] - ETA: 4:27 - loss: 0.3125 - accuracy: 0.8939
WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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99/1400 [=>.....] - ETA: 4:27 - loss: 0.3151 - accuracy: 0.8929WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.
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100/1400 [=>.....] - ETA: 4:27 - loss: 0.3127 - accuracy: 0.8940WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.
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102/1400 [=>.....] - ETA: 4:26 - loss: 0.3130 - accuracy: 0.8941

WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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103/1400 [=>.....] - ETA: 4:26 - loss: 0.3107 - accuracy: 0.8951
WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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104/1400 [=>.....] - ETA: 4:26 - loss: 0.3084 - accuracy: 0.8962
WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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105/1400 [=>.....] - ETA: 4:25 - loss: 0.3062 - accuracy: 0.8971
WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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107/1400 [=>.....] - ETA: 4:25 - loss: 0.3164 - accuracy: 0.8935
WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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108/1400 [=>.....] - ETA: 4:24 - loss: 0.3142 - accuracy: 0.8944
WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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110/1400 [=>.....] - ETA: 4:25 - loss: 0.3098 - accuracy: 0.8964
WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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111/1400 [=>.....] - ETA: 4:25 - loss: 0.3077 - accuracy: 0.8973

WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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112/1400 [=>.....] - ETA: 4:25 - loss: 0.3056 - accuracy:

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113/1400 [=>.....] - ETA: 4:25 - loss: 0.3080 - accu
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115/1400 [=>.....] - ETA: 4:26 - loss: 0.3040 - accuracy: 0.8991
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116/1400 [=>.....] - ETA: 4:26 - loss: 0.3062 - accuracy: 0.8983WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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117/1400 [=>.....] - ETA: 4:26 - loss: 0.3042 - accuracy: 0.8991WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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119/1400 [=>.....] - ETA: 4:26 - loss: 0.3046 - accuracy: 0.8992
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120/1400 [=>.....] - ETA: 4:25 - loss: 0.3027 - accuracy: 0.9000WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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121/1400 [=>.....] - ETA: 4:25 - loss: 0.3008 - accuracy: 0.9008WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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122/1400 [=>.....] - ETA: 4:25 - loss: 0.2989 - accuracy: 0.9016
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124/1400 [=>.....] - ETA: 4:25 - loss: 0.3036 - accu
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125/1400 [=>.....] - ETA: 4:25 - loss: 0.3017 - accu
racy: 0.9008WARNING:tensorflow:You are casting an input of type complex128 t

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126/1400 [=>.....] - ETA: 4:24 - loss: 0.2999 - accuracy: 0.9016
WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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127/1400 [=>.....] - ETA: 4:24 - loss: 0.2981 - accuracy: 0.9024
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128/1400 [=>.....] - ETA: 4:24 - loss: 0.3003 - accuracy: 0.9016

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129/1400 [=>.....] - ETA: 4:24 - loss: 0.2985 - accuracy: 0.9023WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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130/1400 [=>.....] - ETA: 4:24 - loss: 0.3007 - accuracy: 0.9015WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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132/1400 [=>.....] - ETA: 4:23 - loss: 0.2972 - accuracy: 0.9030
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133/1400 [=>.....] - ETA: 4:22 - loss: 0.2993 - accuracy: 0.9023

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134/1400 [=>.....] - ETA: 4:22 - loss: 0.2976 - accuracy: 0.9030

WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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137/1400 [=>.....] - ETA: 4:21 - loss: 0.2964 - accuracy: 0.9036
WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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138/1400 [=>.....] - ETA: 4:21 - loss: 0.2948 - accuracy: 0.9043
WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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139/1400 [=>.....] - ETA: 4:21 - loss: 0.2969 - accuracy: 0.9036
WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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141/1400 [==>.....] - ETA: 4:21 - loss: 0.2973 - accuracy: 0.9035

WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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142/1400 [==>.....] - ETA: 4:21 - loss: 0.2957 - accuracy: 0.9042WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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143/1400 [==>.....] - ETA: 4:21 - loss: 0.2942 - accuracy: 0.9049WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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144/1400 [==>.....] - ETA: 4:21 - loss: 0.2927 - accuracy: 0.9056
WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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145/1400 [==>.....] - ETA: 4:21 - loss: 0.2911 - accuracy: 0.9062

WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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146/1400 [==>.....] - ETA: 4:21 - loss: 0.2896 - accuracy: 0.9068
WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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147/1400 [==>.....] - ETA: 4:21 - loss: 0.2881 - accuracy: 0.9075
WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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149/1400 [==>.....] - ETA: 4:21 - loss: 0.2851 - accuracy: 0.9087
WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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150/1400 [==>.....] - ETA: 4:21 - loss: 0.2836 - accuracy: 0.9093

WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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151/1400 [==>.....] - ETA: 4:21 - loss: 0.2821 - accuracy: 0.9099

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152/1400 [==>.....] - ETA: 4:21 - loss: 0.2806 - accuracy: 0.9105WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.
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154/1400 [==>.....] - ETA: 4:21 - loss: 0.2775 - accuracy: 0.9117
WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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155/1400 [==>.....] - ETA: 4:21 - loss: 0.2800 - accuracy: 0.9110WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.
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156/1400 [==>.....] - ETA: 4:21 - loss: 0.2785 - accuracy: 0.9115WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.
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158/1400 [==>.....] - ETA: 4:20 - loss: 0.2794 - accuracy: 0.9114
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159/1400 [==>.....] - ETA: 4:20 - loss: 0.2820 - accuracy: 0.9107WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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160/1400 [==>.....] - ETA: 4:20 - loss: 0.2804 - accuracy: 0.9112WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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161/1400 [==>.....] - ETA: 4:19 - loss: 0.2829 - accuracy: 0.9106WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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163/1400 [==>.....] - ETA: 4:19 - loss: 0.2837 - accuracy: 0.9104
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164/1400 [==>.....] - ETA: 4:19 - loss: 0.2822 - accuracy: 0.9110
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165/1400 [==>.....] - ETA: 4:18 - loss: 0.2808 - accuracy: 0.9115
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166/1400 [==>.....] - ETA: 4:18 - loss: 0.2794 - accuracy: 0.9120
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167/1400 [==>.....] - ETA: 4:17 - loss: 0.2780 - accuracy: 0.9126

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168/1400 [==>.....] - ETA: 4:17 - loss: 0.2767 - accuracy: 0.9126

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racy: 0.9131WARNING:tensorflow:You are casting an input of type complex128 t
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169/1400 [==>.....] - ETA: 4:17 - loss: 0.2753 - accu
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171/1400 [==>.....] - ETA: 4:16 - loss: 0.2761 - accuracy: 0.9135
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172/1400 [==>.....] - ETA: 4:16 - loss: 0.2748 - accuracy: 0.9140

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173/1400 [==>.....] - ETA: 4:16 - loss: 0.2802 - accuracy: 0.9121

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176/1400 [==>.....] - ETA: 4:15 - loss: 0.2856 - accuracy: 0.9102WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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177/1400 [==>.....] - ETA: 4:15 - loss: 0.2844 - accuracy: 0.9107WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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178/1400 [==>.....] - ETA: 4:15 - loss: 0.2832 - accuracy: 0.9112
WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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180/1400 [==>.....] - ETA: 4:14 - loss: 0.2810 - accuracy: 0.9122

WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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181/1400 [==>.....] - ETA: 4:14 - loss: 0.2818 - accuracy: 0.9116

WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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182/1400 [==>.....] - ETA: 4:14 - loss: 0.2807 - accuracy: 0.9121
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183/1400 [==>.....] - ETA: 4:14 - loss: 0.2821 - accuracy: 0.9115
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184/1400 [==>.....] - ETA: 4:14 - loss: 0.2811 - accuracy: 0.9120

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185/1400 [==>.....] - ETA: 4:14 - loss: 0.2801 - accuracy: 0.9124WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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186/1400 [==>.....] - ETA: 4:13 - loss: 0.2815 - accuracy: 0.9118WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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187/1400 [====>.....] - ETA: 4:13 - loss: 0.2829 - accuracy: 0.9112
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188/1400 [====>.....] - ETA: 4:13 - loss: 0.2819 - accuracy: 0.9117
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189/1400 [==>.....] - ETA: 4:13 - loss: 0.2810 - accuracy: 0.9122

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190/1400 [==>.....] - ETA: 4:13 - loss: 0.2823 - accuracy: 0.9116

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193/1400 [====>.....] - ETA: 4:13 - loss: 0.2884 - accuracy: 0.9088
WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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194/1400 [====>.....] - ETA: 4:12 - loss: 0.2876 - accuracy: 0.9093
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195/1400 [====>.....] - ETA: 4:12 - loss: 0.2867 - accuracy: 0.9097
WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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829/1400 [=====>.....] - ETA: 1:57 - loss: 0.1713 - accuracy: 0.9467

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831/1400 [=====>.....] - ETA: 1:57 - loss: 0.1709 - accuracy: 0.9468
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832/1400 [=====>.....] - ETA: 1:57 - loss: 0.1707 - accuracy: 0.9469

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833/1400 [=====>.....] - ETA: 1:57 - loss: 0.1705 - accuracy: 0.9469

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 834/1400 [=====>.....] - ETA: 1:57 - loss: 0.1703 - accu
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836/1400 [=====>.....] - ETA: 1:56 - loss: 0.1699 - accuracy: 0.9471
WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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837/1400 [=====>.....] - ETA: 1:56 - loss: 0.1697 - accuracy: 0.9472

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838/1400 [=====>.....] - ETA: 1:56 - loss: 0.1695 - accuracy: 0.9473

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840/1400 [=====>.....] - ETA: 1:55 - loss: 0.1691 - accuracy: 0.9474
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841/1400 [=====>.....] - ETA: 1:55 - loss: 0.1689 - accuracy: 0.9474
WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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842/1400 [=====>.....] - ETA: 1:55 - loss: 0.1687 - accuracy: 0.9475
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843/1400 [=====>.....] - ETA: 1:55 - loss: 0.1690 - accuracy: 0.9473
WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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845/1400 [=====>.....] - ETA: 1:54 - loss: 0.1686 - accuracy: 0.9475

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846/1400 [=====>.....] - ETA: 1:54 - loss: 0.1687 - accuracy: 0.9473

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847/1400 [=====>.....] - ETA: 1:54 - loss: 0.1685 - accuracy: 0.9473
WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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848/1400 [=====>.....] - ETA: 1:54 - loss: 0.1683 - accuracy: 0.9474
WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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849/1400 [=====>.....] - ETA: 1:54 - loss: 0.1682 - accuracy: 0.9475

WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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850/1400 [=====>.....] - ETA: 1:53 - loss: 0.1680 - accuracy: 0.9475
WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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851/1400 [=====>.....] - ETA: 1:53 - loss: 0.1679 - accuracy: 0.9476
WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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852/1400 [=====>.....] - ETA: 1:53 - loss: 0.1678 - accu  
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853/1400 [=====>.....] - ETA: 1:53 - loss: 0.1676 - accuracy: 0.9477
WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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854/1400 [=====>.....] - ETA: 1:53 - loss: 0.1675 - accuracy: 0.9478

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855/1400 [=====>.....] - ETA: 1:52 - loss: 0.1673 - accuracy: 0.9478

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858/1400 [=====>.....] - ETA: 1:52 - loss: 0.1667 - accuracy: 0.9480
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859/1400 [=====>.....] - ETA: 1:52 - loss: 0.1665 - accuracy: 0.9481
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860/1400 [=====>.....] - ETA: 1:51 - loss: 0.1664 - accuracy: 0.9481
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862/1400 [=====>.....] - ETA: 1:51 - loss: 0.1660 - accuracy: 0.9483

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863/1400 [=====>.....] - ETA: 1:51 - loss: 0.1658 - accuracy: 0.9483WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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864/1400 [=====>.....] - ETA: 1:51 - loss: 0.1662 - accuracy: 0.9481WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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865/1400 [=====>.....] - ETA: 1:50 - loss: 0.1660 - accuracy: 0.9482
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866/1400 [=====>.....] - ETA: 1:50 - loss: 0.1658 - accuracy: 0.9483

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867/1400 [=====>.....] - ETA: 1:50 - loss: 0.1656 - accuracy: 0.9483WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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868/1400 [=====>.....] - ETA: 1:50 - loss: 0.1654 - accuracy: 0.9484WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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869/1400 [=====>.....] - ETA: 1:49 - loss: 0.1655 - accu  
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870/1400 [=====>.....] - ETA: 1:49 - loss: 0.1653 - accuracy: 0.9483
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871/1400 [=====>.....] - ETA: 1:49 - loss: 0.1651 - accuracy: 0.9483

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872/1400 [=====>.....] - ETA: 1:49 - loss: 0.1650 - accuracy: 0.9484

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875/1400 [=====>.....] - ETA: 1:48 - loss: 0.1645 - accuracy: 0.9486
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876/1400 [=====>.....] - ETA: 1:48 - loss: 0.1647 - accuracy: 0.9484WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.
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877/1400 [=====>.....] - ETA: 1:48 - loss: 0.1646 - accuracy: 0.9485WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.
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879/1400 [=====>.....] - ETA: 1:47 - loss: 0.1644 - accuracy: 0.9486WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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880/1400 [=====>.....] - ETA: 1:47 - loss: 0.1642 - accuracy: 0.9486WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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881/1400 [=====>.....] - ETA: 1:47 - loss: 0.1641 - accuracy: 0.9487WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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882/1400 [=====>.....] - ETA: 1:47 - loss: 0.1639 - accuracy: 0.9488WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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884/1400 [=====>.....] - ETA: 1:46 - loss: 0.1636 - accuracy: 0.9489
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885/1400 [=====>.....] - ETA: 1:46 - loss: 0.1634 - accuracy: 0.9489
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887/1400 [=====>.....] - ETA: 1:46 - loss: 0.1630 - accuracy: 0.9490
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888/1400 [=====>.....] - ETA: 1:45 - loss: 0.1628 - accuracy: 0.9491

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889/1400 [=====>.....] - ETA: 1:45 - loss: 0.1627 - accuracy: 0.9491

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 890/1400 [=====>.....] - ETA: 1:45 - loss: 0.1625 - accu
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892/1400 [=====>.....] - ETA: 1:45 - loss: 0.1621 - accuracy: 0.9493
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893/1400 [=====>.....] - ETA: 1:44 - loss: 0.1619 - accuracy: 0.9494WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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894/1400 [=====>.....] - ETA: 1:44 - loss: 0.1618 - accuracy: 0.9494WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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896/1400 [=====>.....] - ETA: 1:44 - loss: 0.1614 - accuracy: 0.9496
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897/1400 [=====>.....] - ETA: 1:43 - loss: 0.1612 - accuracy: 0.9496
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898/1400 [=====>.....] - ETA: 1:43 - loss: 0.1610 - accuracy: 0.9497
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899/1400 [=====>.....] - ETA: 1:43 - loss: 0.1609 - accuracy: 0.9497
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 901/1400 [=====>.....] - ETA: 1:43 - loss: 0.1606 - accu
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903/1400 [=====>.....] - ETA: 1:42 - loss: 0.1609 - accuracy: 0.9497
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904/1400 [=====>.....] - ETA: 1:42 - loss: 0.1608 - accuracy: 0.9498
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905/1400 [=====>.....] - ETA: 1:42 - loss: 0.1606 - accuracy: 0.9498

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906/1400 [=====>.....] - ETA: 1:41 - loss: 0.1607 - accuracy: 0.9497WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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907/1400 [=====>.....] - ETA: 1:41 - loss: 0.1605 - accuracy: 0.9497WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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908/1400 [=====>.....] - ETA: 1:41 - loss: 0.1604 - accu  
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909/1400 [=====>.....] - ETA: 1:41 - loss: 0.1602 - accuracy: 0.9498
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910/1400 [=====>.....] - ETA: 1:41 - loss: 0.1601 - accuracy: 0.9499

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911/1400 [=====>.....] - ETA: 1:40 - loss: 0.1600 - accuracy: 0.9499

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914/1400 [=====>.....] - ETA: 1:40 - loss: 0.1597 - accuracy: 0.9501
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915/1400 [=====>.....] - ETA: 1:39 - loss: 0.1596 - accuracy: 0.9502
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916/1400 [=====>.....] - ETA: 1:39 - loss: 0.1594 - accuracy: 0.9502
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918/1400 [=====>.....] - ETA: 1:39 - loss: 0.1591 - accuracy: 0.9503

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919/1400 [=====>.....] - ETA: 1:39 - loss: 0.1590 - accuracy: 0.9504WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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920/1400 [=====>.....] - ETA: 1:38 - loss: 0.1588 - accuracy: 0.9504WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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921/1400 [=====>.....] - ETA: 1:38 - loss: 0.1586 - accuracy: 0.9505
WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.

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922/1400 [=====>.....] - ETA: 1:38 - loss: 0.1592 - accuracy: 0.9503

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923/1400 [=====>.....] - ETA: 1:38 - loss: 0.1590 - accuracy: 0.9504
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926/1400 [=====>.....] - ETA: 1:37 - loss: 0.1587 - accuracy: 0.9503
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927/1400 [=====>.....] - ETA: 1:37 - loss: 0.1586 - accuracy: 0.9504

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928/1400 [=====>.....] - ETA: 1:37 - loss: 0.1585 - accuracy: 0.9504

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931/1400 [=====>.....] - ETA: 1:36 - loss: 0.1581 - accuracy: 0.9506
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932/1400 [=====>.....] - ETA: 1:36 - loss: 0.1580 - accuracy: 0.9506WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.
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933/1400 [=====>.....] - ETA: 1:36 - loss: 0.1579 - accuracy: 0.9507WARNING:tensorflow:You are casting an input of type complex128 to an incompatible dtype float32. This will discard the imaginary part and may not be what you intended.
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935/1400 [=====>.....] - ETA: 1:35 - loss: 0.1580 - accuracy: 0.9506
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936/1400 [=====>.....] - ETA: 1:35 - loss: 0.1578 - accuracy: 0.9506
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937/1400 [=====>.....] - ETA: 1:35 - loss: 0.1577 - accuracy: 0.9507
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938/1400 [=====>.....] - ETA: 1:35 - loss: 0.1576 - accuracy: 0.9507
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940/1400 [=====>.....] - ETA: 1:34 - loss: 0.1573 - accuracy: 0.9509
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941/1400 [=====>.....] - ETA: 1:34 - loss: 0.1571 - accuracy: 0.9509
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942/1400 [=====>.....] - ETA: 1:34 - loss: 0.1569 - accuracy: 0.9510

```
In [50]: valpredy = q_model.predict(valx)
valpredy_round = np.round(valpredy)

# metrics calculation:
q_classification = classification_report(valy[:,1], valpredy_round[:,1])
q_confusion = confusion_matrix(valy[:,1], valpredy_round[:,1])

q_accuracy = round(accuracy_score(valy[:,1], valpredy_round[:,1])*100,5)
q_recall = round(recall_score(valy[:,1], valpredy_round[:,1], average='macro')*100,5)
q_precision = round(precision_score(valy[:,1], valpredy_round[:,1], average='macro')*100,5)
q_f1 = round(f1_score(valy[:,1], valpredy_round[:,1], average='weighted')*100,5)

print(f'Accuracy:\t {q_accuracy:.2f}%')
print(f'Recall:\t\t {q_recall:.2f}%')
```

```
print(f'Precision:\t {q_precision:.2f}%')  
print(f'F1:\t\t {q_f1:.2f}%')
```

47/47 [=====] - 2s 47ms/step

Accuracy:	99.80%
Recall:	99.09%
Precision:	99.80%
F1:	99.80%

In []:

This notebook was converted with convert.ploomber.io