<http://www.unb.ca/cic/datasets/ids-2017.html>

<https://cran.r-project.org/web/packages/e1071/vignettes/svmdoc.pdf>

replaced “NaN’ and “Infinity” with “NA”

Use:

Get rid of:

Timestamp

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 IAT Mean

Flow IAT Std

Flow IAT Max

Flow IAT Min

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Fwd IAT Mean | | Fwd IAT Std | | | | Fwd IAT Max | | | Fwd IAT Min | | |
| Bwd IAT Mean | | Bwd IAT Std | | | | Bwd IAT Max | | | Bwd IAT Min | | |
| Fwd PSH Flags | | Bwd PSH Flags | | | | Fwd URG Flags | | | Bwd URG Flags | | |
| Min Packet Length | | Max Packet Length | | | | Packet Length Mean | | | Packet Length Std | | | Packet Length Variance | | | |
| FIN Flag Count | | SYN Flag Count | | | | RST Flag Count | | | PSH Flag Count | | | ACK Flag Count | | | URG Flag Count | | | CWE Flag Count | | | ECE Flag Count | | Down/Up Ratio | |
| Fwd Avg Bytes/Bulk | | | Fwd Avg Packets/Bulk | | | | Fwd Avg Bulk Rate | | | Bwd Avg Bytes/Bulk | | | | Bwd Avg Packets/Bulk | | | Bwd Avg Bulk Rate | | |
| Init\_Win\_bytes\_forward | | | | | | Init\_Win\_bytes\_backward | | | | | | | |
| min\_seg\_size\_forward | | | | | Active Mean | | | Active Std | | | Active Max | | Active Min | | | Idle Mean | | | Idle Std | | | Idle Max | | Idle Min |
| Flow Bytes/s | Flow Packets/s | | |

|  |  |  |  |
| --- | --- | --- | --- |
| Source IP | Source Port | Destination IP | Destination Port |
| Avg Fwd Segment Size | Avg Bwd Segment Size |
| Bwd IAT Total | Fwd Header Length |

Fwd IAT Total

Only has value of zero (Cannot scale data):

Fwd PSH Flags

Bwd.PSH.Flags

Fwd.URG.Flags

Bwd.URG.Flags

CWE.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