**NSL-KDD Dataset features**

WHAT NSL-KDD FEATURES CONTAIN

**@attribute 'duration' real**

Timestamp value: 305562517

Timestamp echo reply: 8692183

Timestamps

Time since first frame in this TCP stream: 0.000000000 seconds

Time since previous frame in this TCP stream: 0.000000000 seconds

**@attribute 'protocol\_type' {'tcp','udp', 'icmp'} [found]**

@attribute 'service' {'aol', 'auth', 'bgp', 'courier', 'csnet\_ns', 'ctf', 'daytime', 'discard', 'domain', 'domain\_u', 'echo', 'eco\_i', 'ecr\_i', 'efs', 'exec', 'finger', 'ftp', 'ftp\_data', 'gopher', 'harvest', 'hostnames', 'http', 'http\_2784', 'http\_443', 'http\_8001', 'imap4', 'IRC', 'iso\_tsap', 'klogin', 'kshell', 'ldap', 'link', 'login', 'mtp', 'name', 'netbios\_dgm', 'netbios\_ns', 'netbios\_ssn', 'netstat', 'nnsp', 'nntp', 'ntp\_u', 'other', 'pm\_dump', 'pop\_2', 'pop\_3', 'printer', 'private', 'red\_i', 'remote\_job', 'rje', 'shell', 'smtp', 'sql\_net', 'ssh', 'sunrpc', 'supdup', 'systat', 'telnet', 'tftp\_u', 'tim\_i', 'time', 'urh\_i', 'urp\_i', 'uucp', 'uucp\_path', 'vmnet', 'whois', 'X11', 'Z39\_50'}

@attribute 'flag' { 'OTH', 'REJ', 'RSTO', 'RSTOS0', 'RSTR', 'S0', 'S1', 'S2', 'S3', 'SF', 'SH' }

***@attribute 'src\_bytes' real [not found]***

***@attribute 'dst\_bytes' real [not found]***

***5. Src\_bytes- Number of data bytes transferred from source to destination in single connection***

***6. Dst\_bytes- Number of data bytes transferred from destination to source in single connection***

**@attribute 'land' {'0', '1'}**

***@attribute 'wrong\_fragment' real [not found]***

**@attribute 'urgent' real**

***@attribute 'hot' real [not found]***

@attribute 'num\_failed\_logins' real [not found]

@attribute 'logged\_in' {'0', '1'} [not found]

***@attribute 'num\_compromised' real [not found]***

@attribute 'root\_shell' real [not found]

@attribute 'su\_attempted' real [not found]

@attribute 'num\_root' real [not found]

@attribute 'num\_file\_creations' real [not found]

@attribute 'num\_shells' real [not found]

@attribute 'num\_access\_files' real [not found]

@attribute 'num\_outbound\_cmds' real [not found]

@attribute 'is\_host\_login' {'0', '1'} [not found]

@attribute 'is\_guest\_login' {'0', '1'} [not found]

**@attribute 'count' real**

**@attribute 'srv\_count' real**

@attribute 'serror\_rate' real [not found]

@attribute 'srv\_serror\_rate' real [not found]

@attribute 'rerror\_rate' real [not found]

@attribute 'srv\_rerror\_rate' real [not found]

@attribute 'same\_srv\_rate' real [not found]

@attribute 'diff\_srv\_rate' real [not found]

@attribute 'srv\_diff\_host\_rate' real [not found]

**@attribute 'dst\_host\_count' real**

**@attribute 'dst\_host\_srv\_count' real**

@attribute 'dst\_host\_same\_srv\_rate' real [not found]

@attribute 'dst\_host\_diff\_srv\_rate' real [not found]

@attribute 'dst\_host\_same\_src\_port\_rate' real [not found]

@attribute 'dst\_host\_srv\_diff\_host\_rate' real [not found]

@attribute 'dst\_host\_serror\_rate' real [not found]

@attribute 'dst\_host\_srv\_serror\_rate' real [not found]

@attribute 'dst\_host\_rerror\_rate' real [not found]

@attribute 'dst\_host\_srv\_rerror\_rate' real [not found]

@attribute 'class' {'normal', 'anomaly'}