

Flow Duration	Bwd Packet Length Max	...	Label
113095465	16500000	...	BENIGN
⋮	⋮	⋮	⋮
12385	0	...	DDoS

Original NIDS dataset

Feature encoding

"Flow Duration is 113095465, ..., Label is BENIGN.",
...
"Flow Duration is 12385, ..., Label is DDoS."

Adding description

Textual representation

"Duration of the flow in Microsecond is 113095465, ..., Label is BENIGN.",
...
"Duration of the flow in Microsecond is 12385, ..., Label is DDoS."

Fine tuning

Large Language Model (LLM)

Generate text data

"Duration of the flow in Microsecond is 113167435, ..., Label is BENIGN.",
...
"Duration of the flow in Microsecond is 12235, ..., Label is DDoS."

Data and feature mapping

Flow Duration	...	Label
113095465	...	BENIGN
⋮	⋮	⋮
12385	...	DDoS

Generated NIDS Dataset (Tabular)