Decision Tree Visualization (max_depth=5) - SensorNetGuard

Error_Rate <= 0.158
gini = 0.093
samples = 8000
value = [7610, 390]
class = Benign

True → **Energy_Consumption_Rate <= 8.525**
gini = 0.013
samples = 7649
value = [7600, 49]
class = Benign

False → **Data_Throughput <= 75.174**
gini = 0.055
samples = 351
value = [10, 341]
class = Malicious

Packet_Drop_Rate <= 3.954
gini = 0.003
samples = 7608
value = [7598, 10]
class = Benign

Data_Throughput <= 89.444
gini = 0.093
samples = 41
value = [2, 39]
class = Malicious

gini = 0.0
samples = 340
value = [0, 340]
class = Malicious

Data_Transmission_Frequency <= 21.561
gini = 0.165
samples = 11
value = [10, 1]
class = Benign

Data_Transmission_Frequency <= 25.826
gini = 0.001
samples = 7603
value = [7598, 5]
class = Benign

gini = 0.0
samples = 5
value = [0, 5]
class = Malicious

gini = 0.0
samples = 39
value = [0, 39]
class = Malicious

gini = 0.0
samples = 2
value = [2, 0]
class = Benign

gini = 0.0
samples = 10
value = [10, 0]
class = Benign

gini = 0.0
samples = 1
value = [0, 1]
class = Malicious

Route_Request_Frequency <= 17.278
gini = 0.001
samples = 7601
value = [7598, 3]
class = Benign

gini = 0.0
samples = 2
value = [0, 2]
class = Malicious

Data_Transmission_Frequency <= 25.142
gini = 0.0
samples = 7598
value = [7597, 1]
class = Benign

CPU_Usage <= 58.061
gini = 0.444
samples = 3
value = [1, 2]
class = Malicious

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