

=== Clustering model (full training set) ===

kMeans

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Number of iterations: 5

Sum of within cluster distances: 54565.088145100686

Initial starting points (random):

Cluster 0:

2,2,2,1,2,1,1,1,1,2,2,2,1,4.371777,537.9983,9.412844,269.3412,2.317624,1.206863,0.000384,950.3973
39,12.022558,0.79557,979.056641,7.722251,71.21251,1016.27789,24.839785,0.801589,0.34674,0.610
441,0.211895,160.695969,2.899433,115.002563,0.00032,143.71315

Cluster 1:

2,2,2,1,2,1,1,1,1,2,2,2,1,4.372097,539.803955,9.244297,259.5232,2.315574,1.200461,0.000512,1107.8
89,4.716739,0.804277,894.6552,7.756217,65.75237,1016.21381,25.147398,0.804153,0.384655,0.6082
64,0.209973,159.446289,2.931471,114.201485,0.00032,121.923866

Missing values globally replaced with mean/mode

Final cluster centroids:

Cluster#			
Attribute	Full Data	0	1
	(14996.0)	(7850.0)	(7146.0)
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P101	1	1	1
P203	1	1	1
P205	1	1	1
P301	1	1	2
P401	2	2	2
P601	1	1	1
MV301	1	1	1
MV302	2	1	2
MV304	1	1	1
UV401	2	2	2
MV101	1	1	1
MV201	1	1	1
MV303	1	1	1
FIT101	0	0	0
LIT101	819.6368	819.4013	819.7938
AIT202	9.2331	9.2437	9.1374
AIT203	246.2189	251.1535	241.3227
FIT201	0.0005	0.0005	0.0005
DPIT301	1.4982	1.2101	12.5232
FIT301	0.0006	0.0005	1.7187
LIT301	981.1587	1008.1149	859.8757
AIT402	9.7411	10.5358	9.4591

FIT401	0.7994	0.7993	0.7994
LIT401	881.274	886.9649	876.1215
AIT501	7.7331	7.7287	7.7347
AIT502	68.9823	69.5206	67.8544
AIT503	1016.2779	1016.2779	1016.2779
AIT504	24.8398	24.8398	24.8398
FIT501	0.8016	0.8017	0.8016
FIT502	0.3469	0.3471	0.3467
FIT503	0.6104	0.6104	0.6104
FIT504	0.2111	0.2111	0.2113
PIT501	160.2314	160.3755	160.1673
PIT502	2.8834	2.8994	2.8674
PIT503	114.7142	114.7622	114.6661
FIT601	0.0003	0.0003	0.0003
AIT201	143.7132	143.6491	143.8093

Time taken to build model (full training data) : 0.35 seconds

=== Model and evaluation on training set ===

Clustered Instances

0	7850 (52%)
1	7146 (48%)

Class attribute: is_attack

Classes to Clusters:

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0  1 <-- assigned to cluster
6732 6338 | no
1118 808 | yes

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Cluster 0 <-- no

Cluster 1 <-- yes

Incorrectly clustered instances : 7456.0 49.7199 %