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Cluster	Entertainment	Financial	Foreign	Metro	National	Sports	Entropy	Purity
1	3	5	40	506	96	27	1.2270	0.7474
2	4	7	280	29	39	2	1.1472	0.7756
3	1	1	1	7	4	671	0.1813	0.9796
4	10	162	3	119	73	2	1.7487	0.4390
5	331	22	5	70	13	23	1.3976	0.7134
6	5	358	12	212	48	13	1.5523	0.5525
Total entropy	354 For each cluster,	555 the class di	341 stribution	943 of the d	273 ata is calcı	738 ulated firs	1.1450 st, i.e., for	0.7203 cluster <i>j</i>
entropy we depind the second		the class di 'probability' m_j is the nu i. Then usi standard for ropy for a se the size of each clusters, an	stribution ' that a m umber of v. ng this clu mula $e_j =$ t of cluster h cluster, i d m is the	of the d nember of alues in c ass distri $\sum_{i=1}^{L} p_i$ rs is calcu- i.e., $e = \sum_{i=1}^{L} p_i$	ata is calcu f cluster j luster j and bution, the $j \log_2 p_{ij}$, we lated as the $\sum_{i=1}^{K} \frac{m_i}{m} e_{j}$, mber of dat	ulated first belongs t d m_{ij} is t entropy where the e sum of t where m_j ta points.	st, i.e., for o class i as he number of each clu L is the n the entropie is the size	cluster j s follows: of values ister j is umber of es of each of cluster











