

Homework Assignment No. 08:

**HW No. 08: LDA, K-NEAREST NEIGHBORS AND K-MEANS
CLUSTERING**

submitted to

Professor Joseph Picone
ECE 8527: Introduction to Pattern Recognition and Machine Learning
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A. TABLE

DS	System	Training Data	Train	Dev	Eval
08	KNN(PAPER)	/train	23.48	26.62	64.18
	RNF(PAPER)		29.23	29.45	59.77
	CI-PCA				
	QDA		49.92	49.78	46.34
	LDA		36.09	36.01	31.94
	KNN		75.19	74.14	35.92
	RNF		100.00	71.18	36.86
	KMN		35.47	35.42	33.22
	CI-PICA	/train + /dev			
	QDA				
	LDA				
	KNN				
	RNF				
	KMN				
09	KNN(PAPER)	/train	2.11	3.81	16.63
	RNF(PAPER)		2.06	3.82	18.32
	CI-PCA				
	QDA		96.87	93.04	97.13
	LDA		96.20	91.82	97.36
	KNN		98.13	96.31	83.24
	RNF		100.00	95.92	81.90
	KMN		87.13	84.69	90.96
	CI-PICA	/train + /dev			
	QDA				
	LDA				
	KNN				
	RNF				
	KMN				

DS	System	Training Data	Train	Dev	Eval
10	KNN(PAPER)	/train	7.63	38.83	33.44
	RNF(PAPER)		2.15	39.74	33.28
	CI-PCA				
	QDA		83.92	55.24	65.89
	LDA		53.02	50.13	48.90
	KNN		92.48	61.37	66.53
	RNF		100.00	60.21	66.68
	KMN		50.00	50.00	50.00
	CI-PICA	/train + /dev			
	QDA				
	LDA				
	KNN				
	RNF				
	KMN				

B. START PROBABILITIES**C. SUMMARY**