Winter 2024-2025 CSSE 386

CSSE 386 – Data Mining with Programming Rose-Hulman Institute of Technology

Worksheet 12

Name (Print):		Section:
1. True/False: PCA is	a supervised learning method.	
2. Dimensionality redual a dataset while	ction is a technique used to as much of the i	the number of features in mportant information as possible
3. Name 2 issues with (1) (2)	multi-dimensional data	
4. PCA is particularly	useful when the features in the	e dataset are
5. Complete the table		
Characteristics Original features	Fetaure Selection	Feature Extraction
Interpretability		
Use Case		
Goals		
6. PCA is particularly	useful when the features in the	e dataset are
7	is used for quantitative da	au
	is used for qualitative data	
	is used for qualitative data	a with ¿ 2 variables
8. What is the rule of the	numb for selecting the number of	of principal components to retain in PCA?
9 True/False: The firs	t principal component explains	the maximum variance in the dataset.

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