

CSSE 315 – Natural Language Processing
Rose-Hulman Institute of Technology

Worksheet 13

Name (Print): _____ Date: _____

1. What does each abbreviation mean:

1) LDA:

2) PCA:

2. Linear discriminant analysis is a _____ algorithm used when the dependent variable is _____ and the independent variables are _____

3. Complete with PCA/LDA/both

_____ reduce data dimensions

_____ focuses on maximizing the separability between known categories

_____ focuses on capturing the most variance in the data without considering any group labels

4. True/False LDA is a supervised Dimensionality Reduction technique:

5. What is the preferred method for normalization (circle one):

1) Z-Score

2) Min-Max

6. Complete the table: Multivariate Techniques

Name	Description
	Explain the large number of variables using their underlying dimensions
	Predict the changes in the dependent variable in response to changes in independent variables
	Classify data into mutually exclusive groups
	Predict the likelihood of an object being a particular class

7. name 2 use cases for LDA:

1)

2)