Winter 2024-2025 CSSE 386

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

## Worksheet 08

Name (Print):	Section:
<ol> <li>Fill in the blanks:</li> <li>Logistic regression is designed to predict and explain a _</li> <li>If p is greater than 0.5, we predict the outcome</li> <li>If p is less than 0.5, we predict the outcome</li> </ol>	·
2. Provide the formula for logistic regression:	
3. In Machine Learning, Logistic regression is often referred to	as
4. Provide the name for the fitting model method that minimi distances from the points to the line. Note: review slipes and the standard s	
Method:	
5. Provide the main reason why we cannot use the Method of I sion:	Least Squares for Logistic Regres-
6. What does ROC stand for?	
7. The default probability threshold for logistic regression in sci	kit-learn is set at
8. Explain why the logistic regression can be used for classific	ation tasks:

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9. Comparison between MLE and ROC-AUC. Provide the purpose, usage, and focus for each (consult the table in slides):