**Homework 4 “Who Said It”**PART B Analysis Answer Sheet  
<https://sites.pitt.edu/~naraehan/ling1330/hw4.html>

Instructions:

* For **Code/output**, copy-paste the relevant section of your IDLE shell window that shows the code snippet along with the output. Screenshots recommended (colors!).
* For **Write-up**, you should type up your answer/analysis referencing what you found through the code.
* [See this example](https://sites.pitt.edu/~naraehan/ling1330/HW4_PART_B_example.pdf) to get a sense of what’s expected!

Your name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. **Classifier accuracy**

|  |  |
| --- | --- |
|  | Write-up |

1. **Features**

|  |  |
| --- | --- |
| a. | Write-up |
| b. | Code/output (copy-paste) Write-up |
| c. | Code/output (copy-paste)  Write-up |

1. **Main character names**

|  |  |
| --- | --- |
| b. | Code/output (copy-paste)  Write-up |

1. **Trying out sentences**

|  |  |
| --- | --- |
| a. | Code/output (copy-paste)  Write-up |

1. **Label probabilities for a sentence**

|  |  |
| --- | --- |
| a. | Code/output (copy-paste) Write-up |
| b. | Code/output (copy-paste) Write-up |
| c. | Code/output (copy-paste)  Write-up |

1. **Trying out made-up sentences**

|  |  |
| --- | --- |
| a. | Code/output (copy-paste) Write-up |
| b. | Code/output (copy-paste) Write-up |

1. **Base probabilities (=priors)**

|  |  |
| --- | --- |
| a. | Code/output (copy-paste) Write-up |
| b. | Code/output (copy-paste) Write-up |
| c. | Code/output (copy-paste)  Write-up |
| d. | Code/output (copy-paste)  Write-up |
| e. | Code/output (copy-paste)  Write-up |

1. **Calculating odds ratio**

|  |  |
| --- | --- |
| a. | Code/output (copy-paste) Write-up |
| b. | Code/output (copy-paste) Write-up |
| c. | Code/output (copy-paste)  Write-up |
| d. | Code/output (copy-paste)  Write-up |
| e. | Code/output (copy-paste)  Write-up |

1. **Feature weights in model**

|  |  |
| --- | --- |
| a. | Code/output (copy-paste) Write-up |
| b. | Code/output (copy-paste) Write-up |

1. **Zero counts and feature weights**

|  |  |
| --- | --- |
| a. | Code/output (copy-paste) Write-up |
| b. | Code/output (copy-paste) Write-up |
| c. | Code/output (copy-paste)  Write-up |
| d. | Code/output (copy-paste)  Write-up |
| e. | Code/output (copy-paste)  Write-up |
| f. | Code/output (copy-paste)  Write-up |

1. **Combining feature weights**

|  |  |
| --- | --- |
| a. | Code/output (copy-paste) Write-up |
| b. | Code/output (copy-paste) Write-up |
| c. | Code/output (copy-paste)  Write-up |
| d. | Code/output (copy-paste)  Write-up |
| e. | Code/output (copy-paste)  Write-up |
| f. | Code/output (copy-paste)  Write-up |
| g. | Code/output (copy-paste)  Write-up |

1. **Performance on the development-test data**

|  |  |
| --- | --- |
| a. | Code/output (copy-paste) Write-up |
| b. | Code/output (copy-paste) Write-up |
| c. | Code/output (copy-paste)  Write-up |
| d. | Code/output (copy-paste)  Write-up |
| e. | Code/output (copy-paste)  Write-up |

1. **Error analysis**

|  |  |
| --- | --- |
| a. | Code/output (copy-paste) Write-up |
| b. | Code/output (copy-paste) Write-up |