

CS 4375: Neural Net

ASSIGNMENT 2

Names of students in your group: DYS190002 David Song, AXV200086 Avinash Vadivelu

Number of free late days used: 0

Note: You are allowed a total of 4 free late days for the entire semester. You can use at most 2 for each assignment. After that, there will be a penalty of 10% for each late day.

Please list clearly all the sources/references that you have used in this assignment

Sources/References:

<https://www.cs.princeton.edu/courses/archive/fall08/cos402/readings/boosting.pdf>

Results:

Value of K	SSE	Size of each cluster
5	1396.0	1: 271 tweets 2: 281 tweets 3: 271 tweets 4: 286 tweets 5: 292 tweets
10	1391.0	1: 145 tweets 2: 154 tweets 3: 152 tweets 4: 134 tweets 5: 154 tweets 6: 125 tweets 7: 154 tweets 8: 130 tweets 9: 142 tweets 10: 111 tweets
15	1386.0	1: 95 tweets 2: 85 tweets 3: 100 tweets 4: 96 tweets 5: 81 tweets 6: 99 tweets 7: 97 tweets 8: 101 tweets 9: 87 tweets 10: 95 tweets 11: 76 tweets 12: 99 tweets 13: 98 tweets 14: 82 tweets 15: 110 tweets
20	1381.0	1: 55 tweets 2: 69 tweets 3: 79 tweets 4: 71 tweets 5: 64 tweets 6: 75 tweets 7: 83 tweets 8: 73 tweets 9: 71 tweets 10: 61 tweets 11: 77 tweets 12: 67 tweets 13: 69 tweets 14: 52 tweets 15: 87 tweets 16: 75 tweets 17: 72 tweets

		18: 57 tweets 19: 66 tweets 20: 78 tweets
25	1376.0	1: 62 tweets 2: 52 tweets 3: 57 tweets 4: 51 tweets 5: 50 tweets 6: 61 tweets 7: 60 tweets 8: 54 tweets 9: 60 tweets 10: 50 tweets 11: 60 tweets 12: 48 tweets 13: 57 tweets 14: 53 tweets 15: 63 tweets 16: 56 tweets 17: 46 tweets 18: 60 tweets 19: 61 tweets 20: 47 tweets 21: 56 tweets 22: 61 tweets 23: 59 tweets 24: 57 tweets 25: 60 tweets