KNN Classifier Constructing the Matrix Top (00/200 unique words Book 2 Book 1 - top (00/200 Book 2 - top (00/200 Book 3 - top/00/200 Lake the set that contains all words

author 18. CLASS Shakespean 68 0 199 263 436 Loneo 0 Ø 2 (8 42 0 0 O 1984 orwell BOOK 123 MATRIX KUV query-book

KNN (query-book, book 123 matrix, K=3) "magic" Output: Shakespeare Cosine Similarity cos 6 = - - b 11 m 11 11 16 11 a = Book 123 MATRIX = M features 199 263 68 ...

b = fuery-book- vector = (u g b = =

199² + 263² + 68² + ··· + 0² \(150² + 320² + ··· ²

$$f = \cos \left(\frac{199 \cdot 293}{199 \cdot 293} \right) + \frac{190^{2} \cdot 320^{2}}{15 \cdot 32^{2} \cdot 15} \right)$$

$$f = \cos \left(\frac{199 \cdot 293}{15 \cdot 22} \right) + \frac{190^{2} \cdot 320^{2} \cdot 10^{2}}{15 \cdot 32^{2}} \right)$$

$$f = \cos \left(\frac{199 \cdot 293}{15 \cdot 26} \right) + \frac{190^{2} \cdot 320^{2} \cdot 10^{2}}{15 \cdot 32^{2}} \right)$$

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$$\theta = \cos \left(\frac{1132}{\sqrt{1076}\sqrt{1241}} \right)$$

$$\theta = \cos \left(\frac{132}{32.8 \cdot 35.3} \right)$$

cos