

Assignment-1

DATA MINING AND DATA WAREHOUSING LAB (CSX-425)

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Solve all the questions

Problem 1. $A = \begin{pmatrix} 3 & -2 & 1 \\ -1 & 4 & -2 \end{pmatrix}$ and $B = \begin{pmatrix} -7 & 4 \\ 9 & 5 \\ 2 & -1 \end{pmatrix}$

(i). Find matrix – matrix multiplication (AB) .

(ii). Find $(AB)^T$ and $(AB)^{-1}$.

Find the mean, standard deviation for each column and row for the matrices A , B , AB , $(AB)^{-1}$.

Problem 2. Write a “Function” program in R to find $n!$. Hence Find $13!$, $32!$, ..Do not name the function by “Factorial”. You can initialize that $0!=1$ and $1!=1$.

Problem 3. Write a “Function” program in R to find maximum and minimum from a set of numbers. Do not name the function by “max” or “min”. As an input you take $(4,44.7,2,40,54,1,3,4)$.

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