60004210210 Amartya Mishra COMPS – C31

ML Experiment 4

6004210210 Amartya Mishra comps - c31 ML Experiment 4 Aim: To implement principle component Analysis (PCA) Theory: PCA works on the condition that while the Date un a higher dimensional stace us mappied to data un lower dimension space the Valuance of the data un the to lower Dimensional Shace should be maximum PCA is a statistical procedure that were an orthogonal transformation that converts a set of co-related variables to a set of unco-related variables It is an unsupervised leaving algorithm used to examine the iterations among a set of Variables steps I) Standardization 7 : X- L1 I) covariance Matrix Computation (OV (X1, X2) = (x1 - x1) (x21 - x2 12-1 FOR EDUCATIONAL USE daram

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zn)	compute Eigen values & Eigen Vectors of covariance matrix to identify principal components
2000	$Ax = \lambda x$
	$A \times A \times$
200	$ \begin{array}{cccc} A \times & -\lambda \times & = 0 \\ (A - \lambda T) \times & = 0 \end{array} $
	There is the factor of the street street
	conclusion: Thus we implement pcA
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Implementation:



