

Department of Statistics, School of Mathematical Sciences
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Practical Sheet: ST-405 (C) M.Sc. (II) Statistics
Topic 6: PCA and Clustering Methods

- 1) Perform PCA on `USArrests` data. Make sure that the data is standardized and the missing values have been removed from the data. Obtain biplot and interpret it. Compute the proportion of variance explained (PVE) by each principal component and comment on it.
- 2) The *K*-Means Clustering and Hierarchical clustering example from the ISLR2 book on page 538.