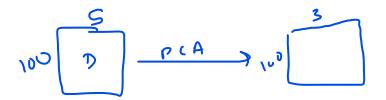
Dimensionality Reduction - reducing dimensionality of data from higher dimensions to lower dimensions.

In case of tablur data



Use of dimensionality reduction

- optimized data storage IoT data, telemetry data
- High dimensional data visualization it can help in reducing dimensionality without loosing information
- Feature Extraction for supervised ML Handle Multicollinearity
- Factor Analysis mostly used in economics

Algorithms for dimensionality reduction

Unsupervised ML - PCA, SVD (Single Value Decomposition) Supervised PCA - LDA (Linear Discriminant Analysis) Deep Learning (Unsupervised) - Autoencoders