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Question 4:

PCA	t - SNE
- It's a linear Dimensionality reduction technique	- It's a non-linear Dimensionality reduction technique
- It tries to preserve the global Structure of data	- It tries to preserve the local Structure of data
- It doesn't work well as compared to t-SNE	- It's one of the best dimensionality reduction technique
- It doesn't involve hyperparameters.	- It involves hyperparameter such as perplexity.
- It gets highly affected by outliers	- It can handle outliers
- Is a deterministic algorithm	- Is a non-deterministic algorithm
- works by rotating the vectors for preserving variance	- works by minimising the distance between the point
- we can find decide on how much var to preserve using eigen values	- we can't preserve var instead we can preserve distance using hyperparameters.