

# DATA SCIENCE ASSIGNMENT

## Day - 37:

**1. Which dimensionality reduction technique is primarily used for linear transformations to project high-dimensional data into a lower-dimensional space, preserving as much variance as possible?**

**2. t-SNE (t-Distributed Stochastic Neighbor Embedding) is particularly useful for:**

**3. Linear Discriminant Analysis (LDA) is commonly employed in:**

**4. How does t-SNE handle missing values in the dataset?**

**5. Can PCA be applied to non-numeric data? If not, what preprocessing steps are necessary?**