Section 3: Working with Features

Now that you are done with the videos of section 3, let's assess your learning. Here, are a few questions, followed by 4 options, out of which 1 is the correct option. Select the right option and validate your learning! The answers are provided in a separate sheet

Q1. What is the problem with features with low variability (variance)?

a. They do not change
b. They are likely to have very little impact on prediction
c. They make the model slower to train
d. They produce noisy features

Q2. Which statistical test can be used in a classification task, to test the relationship between the target and one categorical feature?

a. ANOVA-test
b. Fisher test
c. Chi-squared test
d. Pearson test

Q3. Procedure that converts a set of observations of possibly correlated variables into a set of values of linearly uncorrelated variables:

a. Factor analysis
b. Confusion matrix
c. Scaling features
d. Principal component analysis

Q4. When doing feature engineering, which of the following strategies could be used?

a. Encode the information in a better way
b. Using dimensionality reduction techniques like PCA
c. Create new features from existing ones
a. All of the above