Traccia 3

The candidate answers the following questions concisely, concretely and accompanying the answer, where required, with a simple but adequate example to illustrate the theoretical aspects of the question.

1. The candidate briefly describes a method for reducing the dimensionality of a dataset and discusses its application in a concrete case, illustrating its advantages and, possibly, discussing its limitations.

2. The candidate defines the "mode" of a sample distribution. Furthermore, the candidate gives an example of a distribution in which the mode coincides with the sample mean, and an example in which the mode does not coincide with the sample mean.

3. The candidate briefly describes a model for the binary classification of data and discusses its application in a concrete case.