

**METHOD AND APPARATUS FOR ENCRYPTING DATA,
METHOD AND APPARATUS FOR TRAINING MACHINE
LEARNING MODEL, AND ELECTRONIC DEVICE**

ABSTRACT

5 A method for encrypting data is disclosed, and includes the following: generating
an $N \times M$ dimensional target matrix based on N data samples and M dimensional data
features respectively corresponding to the N data samples; performing encryption
calculation on the target matrix based on a PCA algorithm to obtain an encrypted
 $N \times K$ dimensional encryption matrix; and transmitting the encryption matrix to a
10 modeling server, so that the modeling server trains a machine learning model by using
the encryption matrix as a training sample.

FIG. 1