

METHODS, APPARATUSES, AND SYSTEMS FOR TRAINING MODEL BY USING MULTIPLE DATA OWNERS

ABSTRACT

Embodiments of this specification provide methods, apparatuses, and systems for training a model by using multiple data owners. In the method, each second data owner determines, according to first data, second feature data intersecting each piece of first data, and executes the following main iteration process until a first iteration end condition is met: performing, for each training unit by using a first training sample and a second training sample, cooperative training on a first model, a second model, and a third model that participate in training of the training unit; a master server performs federated aggregation on the trained first model and/or third model in each training unit, to obtain a corresponding first global model and/or third global model; and updates the first model according to the first global model and/or updates the third model according to the third global model at each first data owner and/or each slave server.

Figure 5