

ABSTRACT**UNIFIED INTELLIGENCE SYSTEM AND METHOD FOR ADAPTIVE COLLABORATIVE LEARNING**

Various embodiments of the present disclosure provide a Unified Intelligence (UI) System (100) comprising a Central Server (104) that distributes a current model to a plurality of Computing Devices (102) and generates a Global Model (110) based on model aggregation using Stochastic Gradient Descent (SGD) method on the Updated Models (114), in accordance with a defined configuration for adaptive learning. The Central Server (104) further estimates, using an Optimal Global Model (110A) corresponding to a converged Global Model (110), an outcome label classification of a new unlabeled object characterized by corresponding features. The estimated outcome label classification of the new unlabeled object is used to determine, by an essential service provider, new data associated with a user. The Updated Models (114) are received from the plurality of Computing Devices (102) that train and cryptographically mask the received current models. The training of the current models uses local data comprising alternate data from corresponding Computing Devices associated with the user.

Figure 1