SYSTEM, METHOD, AND COMPUTER PROGRAM PRODUCT FOR INCREMENTAL LEARNING

ABSTRACT

Systems, methods, and computer program products for incremental learning are provided. A system includes at least one processor programmed or configured to execute a first machine-learning model for each input of a plurality of inputs associated with a plurality of requests in a production environment, determine to train the first machine-learning model based on at least one rule, in response to determining to train the first machine-learning model, creating a second machine-learning model including weights from the first machine-learning model, train the second-machine learning model with the model data stored in the at least one data storage device, determine whether to replace the first machine-learning model with the second machine-learning model, and in response to determining to replace the first machine-learning model with the second machine-learning model, replace the first machine-learning model with the second machine-learning model in the production environment.