



Workshop EPFL-Inria
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Title: « Harnessing increased client participation in federated learning »

Abstract:

Federated learning is a machine learning technique in which nodes cooperate to train a global model. As more nodes participate in a round of federated learning, the effectiveness of each node's individual model updates also diminishes. In this presentation, I will introduce a method to enhance the effectiveness of client updates and reduce training time in federated learning. The approach involves dividing the network into smaller groups, or cohorts and subsequently using knowledge distillation to produce a global model.

Biography:

Tuan-Anh is a PhD student at the Inria DATAMOVE team in Grenoble. His research revolves around on online prediction and distributed learning, with a particular emphasis on developing algorithms that optimize computational resources and enhance communication efficiency