

Topic Selection

In general I am proposing the general topic of Federated Learning. Federated Learning is intrinsically asynchronous in that its approach is decentralized. The various topics and mechanisms within Federated Learning's approaches is encapsulated in the concept of homogeneity. Therefore, specifically, I am proposing the research topic of Cross-Silo Federated Learning, a type of decentralized learning in which each system within the distributed system can have no understanding of any other system. I would like to survey the history, philosophical intentions, and architectural approaches to this type of Federated Learning within the context of homogeneity. If the topic proves to be too broad, I intend to narrow in on the applications of training LLMs.