

Private and Secure Machine Learning in Wireless Mobile Communication

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Abstract

As wireless mobile communication continues to evolve, the demand for efficient and accurate Machine Learning (ML) models to manage different use cases has grown substantially. Distributed Collaborative Machine Learning (DCML) techniques offer a promising solution by enabling multiple devices/entities to collaboratively train an ML model without having to share their data with each other. Although these methods can enhance user data privacy, many researches have shown their limitations. One way to ensure privacy in DCML techniques is to use Differential Privacy (DP). DP is a framework that offers mathematically guaranteed privacy. This research paper presents an investigation into the integration of DP mechanisms within DCML frameworks for wireless mobile communication environments. It evaluates the performance of DP and DCML techniques in various aspects of wireless mobile communication, including network traffic analysis, and network slicing. Through experimental simulations, the impact of DP on model performance, convergence rate, and computation overhead is analyzed. The results provide insights into the trade-offs between privacy preservation and ML model effectiveness. This research contributes to the understanding of how the combination of DP and DCML methods can be effectively integrated into wireless mobile communication.

This is a preprint of the publication which has been presented at the IEEE Future Networks World Forum 2023.

Index Terms

Wireless Mobile communication, Differential Privacy, Split Learning, Federated Learning, SplitFed Learning

I. INTRODUCTION

Wireless communication has become an essential part of our lives. It is used in a wide variety of applications, from smartphones and laptops to smart home devices and self-driving cars. As the number of wireless devices and applications continues to grow, the complexity of wireless networks is also increasing. The diversity in these use cases necessitates a flexible and adaptive network infrastructure. Machine Learning (ML), especially Distributed Collaborative Machine Learning (DCML), has emerged as an indispensable tool in achieving this.

DCML techniques such as Federated Learning (FL), Split Learning (SL), and SplitFed Learning (SFL) [1]–[3], facilitate collaboration on ML model training without sharing raw data, thus, preserving individual privacy while improving model efficiency. These approaches efficiently allocate computational resources, minimize communication overhead, and can be scaled to handle large datasets and numerous participants. They are particularly relevant in wireless mobile communication environments, where data is generated and processed across many devices. However, the distributive nature of these techniques increases the attack surface on the collaboratively trained ML models [4]. For instance, in [5] a backdoor attack algorithm to exploit the FL based mmWave beam selection

method is proposed. In addition, stringent data protection regulations like the General Data Protection Regulation (GDPR) and the California Consumer Privacy Act (CCPA) are being enforced, leading to the development and adoption of more private and secure ML techniques.

Traditional privacy-preserving methods, like data anonymization and data masking, have been valuable tools in protecting individual privacy, particularly in situations where data sharing is necessary. However, these methods have revealed vulnerabilities over time, especially when faced with adversaries with advanced data re-identification and de-anonymization capabilities [6]. Thus, while these approaches offer practical solutions, their effectiveness diminishes as data complexity and the potential for information leakage increases, prompting the development of more advanced approaches like Differential Privacy (DP) to address evolving privacy challenges.

DP offers a mathematically rigorous approach to privacy protection [7]. It provides a strong foundation for quantifying and controlling the privacy risk associated with data releases and queries. It ensures that the presence or absence of any individual's data has a negligible impact on the outcome of data analyses. DP accomplishes this by introducing carefully calibrated noise or randomness into data queries, effectively

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states living in its shadow man the state and war explains how balances result not from the malevolence of men or of states but from the condition in which all states exist 4 the tendency of states to balance is rooted in the anarchy of states so are other practices and concerns of states war may break

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almost five decades have passed since i wrote a doctoral dissertation called man the state and the state system in theories of the causes of war after all these years it is pleasant to recall the origins and evolution of the manuscript