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Federated Learning Applications in the Industrial Internet of Everything (IoE)

Introduction of The Book :

The Industrial Internet of Everything (IoE) is a rapidly evolving field that is set to revolutionize the way we work by connecting machines, devices, and systems to the Internet and enabling them to share data and communicate with each other. However, as the number of connected devices grows, so does the amount of data they generate, which presents a number of challenges, including data privacy, security, and scalability. Federated learning is a technique that can help address these challenges by allowing devices to learn from each other without sharing their raw data.

Salient Features of The Book :

1. In-depth coverage of practical applications: The book provides a comprehensive analysis of the use cases of federated learning in the Industrial IoE, making it an indispensable resource for professionals and researchers in this field.
2. Focus on security and privacy: The book delves into the security and privacy concerns of implementing federated learning in the industrial sector, making it a valuable resource for those who are concerned about these issues.
3. Overview of state-of-the-art techniques and technologies: The book offers an overview of the latest techniques and technologies used in federated learning for the Industrial IoE, providing readers with a valuable resource to stay up-to-date with the latest developments in this field.
4. Expert insights into future trends and potential developments: The book provides valuable insights into the future trends and potential developments in federated learning for the Industrial IoE, making it an essential resource for professionals and researchers who are looking to stay ahead of the curve.
5. Interdisciplinary approach: The book is written for a broad audience, including professionals, researchers, and students from a variety of disciplines, including artificial intelligence, industrial IoT, and federated learning.
6. Practical examples and case studies: The book includes real-world examples and case studies to illustrate the concepts and applications of federated learning in the Industrial IoE, making it an accessible and engaging resource for those who are new to this field.

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