Privasea AI Network Whitepaper

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Privasea Technology

Abstract. As the amount of data being generated and the number of users accessing data-driven applications increase, there are concerns about privacy protection and the lack of computational power. One potential solution to these issues is AI computation networks, which can offer efficient methods to stimulate computation power and maintain privacy throughout the data processing cycle. This whitepaper introduces the Privasea AI Network, which allows multiple parties to collaborate without revealing sensitive information. Our proposed system employs Fully Homomorphic Encryption (FHE) technology to ensure the privacy and security of data during the AI computation process. Additionally, we provide demonstrations of AI models running on the Privasea AI Network to showcase its effectiveness.

1 Introduction

1.1 Objectives

Machine learning is a powerful technology that has the potential to significantly improve our lives. By using advanced algorithms to analyse large amounts of data, machine learning can help people make better decisions, solve complex problems, and even predict future events.

However, there are concerns about the privacy and security of personal data, as many sensitive types of information such as medical records, financial information and personal identification information require external computing power for AI processing. This has created a need for privacy-preserving AI that can protect each individual's privacy while still allowing accurate machine learning.

Privasea AI Network is designed to address the aforementioned issues and provide AI solutions that protect privacy. One of its primary objectives is to comply with data protection regulations, such as the General Data Protection Regulation (GDPR) in the European Union. These regulations have stringent requirements for the collection, processing and storage of personal data. To meet these requirements, organisations can use privacy preserving AI techniques that ensure personal data is protected during the model training and inference process.

Another objective is to safeguard users' sensitive data from unauthorised access. Data leakage can result in substantial harm to individuals whose data



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