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Cybersecurity Impact over Bigdata and IoT Growth

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Abstract

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Metadata**Abstract:**

Big Data and IoT based applications are promising and being necessary for almost all the fields. IoT applications provide us with beneficial services, and also they gather and transmit data to Big Data databases where data can be stored and analyzed. Big Data and IoT started to be involved in smart homes, smart healthcare, education, shopping and even in agriculture field. These Big Data and IoT based applications are growing rapidly. The more these technologies are giving us great applications and making our life better; the more cybersecurity attacks start against them. These applications are the target for attackers due to the useful and massive amount of data they have.

Cybersecurity is a significant issue for these technologies. Cybersecurity threats and attacks can stop these technologies from growing, which is considered to be a negative point for us and these promising technologies. Cybersecurity threats weaken these technologies to gain full access over the user's data. Understanding the possible applications and benefits that we could learn from these technologies is important Also, understanding and being aware of the possible threats that could threaten the various Big Data and IoT based applications is more critical Understanding the possible cybersecurity attacks and threats can help us to know about how to protect these technologies and applications from cybersecurity attacks. This research presents critical cybersecurity impacts in the form of security threats, and attacks that could be initiated against Big Data and IoT based applications and affect their growth. These impacts are elaborated using a case study of a healthcare system with its possible cybersecurity attacks, which shows the relation between cybersecurity attacks and the growth of Big Data and IoT technologies.

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 **Contents**

I. Introduction

Internet of Things (IoT) is known as a huge network that consists of smart objects like smartphones, televisions, cars and many more that communicate with each other by sending and receiving data and information. IoT has been a controversial subject lately due to the big positive impact it is making on our life every day. In [1] the IoT is a promising technology and **Signlays to Significant Reading** the field of developing new smart services. Recently, IoT applications started to appear in many fields like agriculture, healthcare, military and food processing industry see Fig. 1. In [2] an example of IoT in the transportation field where the IoT applications can be used for smart cars that communicate with traffic management centers.

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