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SECURITY CHALLENGES AND MEASURES OF IOT DEVICES AND ITS NETWORKS

By

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ABSTRACT

The Internet of Things (IoT) illustrates physical objects with sensors, processing capabilities, software, and other technologies that attach and swap data with other devices and systems over the Internet or other communication networks. The use of IoT devices is widespread across all domains. In this article, various types of attacks on IoT devices by intruders or hackers to gain access to IoT devices were discussed. In addition, various measures have been formulated to minimize attacks on IoT Devices. In-depth analysis of the likelihood of security threats and various possibilities to minimize security threat hacking were analyzed in detail, and possible measures are stated to overcome security threats.

Keywords: Security, Threat, Protocol, Attacks, Fuzzy Logic, Network.

INTRODUCTION

The movement of IoT is significant in the present era and is part of the Internet. The IoT has a global network infrastructure with an identity for every object that is physically connected to the Internet and can communicate with other devices on the Internet. There are a few devices such as computers, cell phones, tabs, and washing machines. The IoT is a vast network of interconnected "things." The device contains a microchip that connects all devices. These microchips track the environment and report this information to both networks and humans (Husamuddin & Qayyum, 2017).

There are a few devices, such as computers, cell phones, tabs, and washing machines. IoT is a large network of interconnected devices, and its devices contain microchips that interconnect all devices. These microchips track the surroundings and report the same in the network, as well as in humans. The best part of IoT is



that each and every physical entity can be communicated and accessible through the Internet (Husamuddin & Qayyum, 2017). As a result of the low-cost Internet, a large number of devices are connected to the Internet. According to a research company, there were 4.48 billion devices connected to the Internet, and the growth in 2016 was expected to be 30%. By 2020, it is expected to reach 50 billion. These devices provide a surface for attackers (Husamuddin & Qayyum, 2017).

1. Features of IoT

Vignesh and Samydurai (2017) illustrated some important IoT features from four aspects: description, threat, challenges, opportunities, and solutions, as depicted in Figure 1.

- Description: This describes the vulnerabilities in IoT security across networks or in the cloud and describes the distinct security measures to safeguard the resources (Zhou et al., 2018).
- *Threat:* It discusses the latent threats and vulnerabilities of IoT devices as well as the major consequences of these threats (Siddiqui et al., 2020).
- Challenges: It outlines the possible difficulties in accessing IoT devices and addresses the threats to

RESEARCH PAPER

SECURITY THREATS AND MEASURES TO OVERCOME IN SUPERIOR CLOUD

By

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ABSTRACT

Cloud computing is among the most widely used technologies due to its ability to reduce costs, reliability and fast access with increasing flexibility and scalability for computer processes. In recent years, cloud computing has grown rapidly in the IT industry, and IT organizations have expressed concerns regarding security issues with cloud computing. Cloud Computing has some level of risks because essential services are frequently outsourced to a third party, and as third party handles the data stored in the cloud it is harder to maintain data security and confidentiality. This paper provides an overview of security issues or menaces in the cloud and proposes some measures to address them.

Keywords: Cloud Computing, Security, Threats, Confidentiality.

INTRODUCTION

The provision of computing services such as servers, storage, databases, networking and software are through the cloud, and cloud computing is a network for storage and sharing resources. Cloud computing is a network for storage and sharing resources. In cloud, one can pay only for cloud services they use thus helping lower the operating costs, and in turn organizations run effectively. In cloud environments, several kinds of virtual machines are hosted on the same physical server as infrastructure.

Most IT organizations fear that risks of external data storage, reliance on the public internet, lack of control, multi-tenancy, and integration with internal security are all sources of concern. Compared to outdated technologies, the cloud has many specific features, such as its large scale and resources in cloud are completely distributed, and completely visualized. Security mechanisms such as proper authentication, confidentiality



for personal information and prevention of data loss are essential in cloud computing.

Virtualization

Cloud computing uses the concept of virtualization, in which multiple virtual machines can share a single physical computer and run various applications and operating systems.

Renting out individual physical resources to each customer results in overhead costs for cloud service providers. Virtualization can be a beneficial strategy for effectively utilizing cloud resources. Figure 1 shows the hypercycle of cloud security in 2020.

Types of Cloud Environments: Public, Private, Hybrid and Community clouds.

Public Cloud: A public cloud is a standard model in which providers make several resources, such as applications and storage, available to the public. Public cloud services may be free or not.

Private Cloud: Resources for cloud computing that are used exclusively by a single company or organization are referred to as private cloud. A private cloud can be physically located in the business's on-site data center, or some businesses may choose to make payments to third-

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Research paper

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A STUDY ON SUPERVISED LEARNING MODEL – K-NN CLASSIFICATION

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Abstract:

In the world of machine learning, the k-Nearest Neighbors (kNN) algorithm has emerged as a powerful tool for classification tasks. With its simplicity and effectiveness, kNN has gained popularity across various domains. In this article, we will explore the fundamentals of kNN, its applications, and implementation. Whether you are a beginner or an experienced practitioner in machine learning, this article will provide valuable insights into the capabilities of kNN and how it can be leveraged to make accurate predictions. So, let's dive into the world of k-Nearest Neighbors and unlock its potential!

Keywords: KNN, Machine Learning, Classification, Supervised Learning

1. Introduction : MACHINE LEARNING

Machine learning is a field of study and practice that focuses on developing algorithms and models that enable computers to learn and make predictions or decisions without being explicitly programmed. It is a subset of artificial intelligence (AI) and involves the use of statistical techniques and computational models to analyze and interpret complex data patterns.

The goal of machine learning is to enable computers to learn from experience or historical data, and improve their performance or decision-making abilities over time. This is achieved by training machine learning models on large datasets, where the models learn patterns, relationships, and trends within the data. Once trained, these models can be used to make predictions, classify new data, or discover insights from previously unseen data.

Machine learning can be categorized into three types:









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Date: 20/07/2023

PROJECT COMPLETION CERTIFICATE

This is to certify that VALLURI SAI RAGHU VAMSI (21DSC01), MSC(Computational Data Science) student of P.B.SIDDHARTHA COLLEGE OF ARTS & SCIENCE, have successfully completed his project work title coined "Titanic Survival Prediction Using Machine Learning" as part of her course curriculum.

He accomplished his project using Python with Machine Learning Technologies during the period 27th March 2023- 19th July 2023 under our esteemed guidance.

As far as our knowledge is concerned his skills and involement is found Good.



OPP: M&M, Beside Big C' Road, Benz Circle Area, Vijayawada-520010.Ph:0866-7969710. E-mail: vxlitsolutions1@gmail.com





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International Institute of Information Technology, Hyderabad

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ith a consol	idated score	e of	49	%	
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No. of credits recommended: 3 or 4



Hi Aamina Sultana,

At Accenture, we take pride in helping talented students like you and provide them with a learning exposure and environment t(including giving an exposure to some Live Projects) so that they can enhance or acquire new working skills and this could help in preparing you for the jobs of the future.

We are pleased to confirm and offer you an internship with Accenture as per below terms.

- 1. Full name of the intern: Aamina Sultana
- 2. Start of Internship: March 2023
- 3. Base location: Bangalore
- 4. Internship Duration: 12 weeks
- 5. Stipend per month (including tax): INR 16,100
- 6. Additional monthly allowance: INR 1,000
- 7. One-time allowance: **INR 2,000**

* Base location implies the Accenture office location that an intern will be assigned. At present the intern will not be expected to travel to the office location in light of the nationwide situation due to Covid-19. The internship will begin in a virtual format and any change in the mode of internship will be communicated by the Internship program team basis organization guidelines.

Please review the Terms & Conditions below:

- 1. Non-Disclosure Agreement (NDA) is required to be signed by all the Interns to ensure compliance of Accenture's data security and privacy policies. The conditions of the NDA applies even while you are in a remote location (of your choice) and not in the base location. (Please keep us informed of your remote location at all times)
- 2. No code snippet or technical details would be provided for project, presentation or documentation.
- 3. No Accenture in-house floor visit could be allowed to any college guide or external person for the purpose of Intern's/student's project preparation or analysis.
- 4. Other than the stipend for internship mentioned above, no further stipend for additional allowance(s), transportation or accommodation would be provided.
- 5. Interns are expected to be punctual, disciplined and professional in their approach to all their activities while dealing with Accenture work.
- 6. Ethical usage of Accenture resources is expected at all times and a breach may result in actions including but not limited to termination of internship.

Internship Learning Program

As a unique learning experience, Accenture will provide an integrated learning program as part of your internship. The training modules are enabled across the internship duration with a reasonable time to learn and complete these trainings. For the completion of the internship and clearing the training assessments as mentioned below, you are required to complete the training provided during the internship and undergo a review and assessment as mentioned more in details below.

Closer to your program completion, you will be assessed and reviewed based on your collective performance in our training and internship program. Based on this collective review, and your clearance of Accenture's hiring procedure (including background and fitment checks) and your meeting eligibility criteria for the opportunity you are being reviewed for, you may be provided an opportunity at Accenture's discretion, for employment.

Subject to the above an offer of employment will be provided to you by Accenture which will include terms of employment as well.

Leave Policy

For the purpose of this effective learning and understanding the concepts that will be provided to you in this internship, your continuous presence (through remote or otherwise as provided for by Accenture) is essential for the internship program. However, we do understand that in certain circumstance you may require a leave and accordingly the following leaves can be availed by you during the internship program.

- 1. Exigency/Unplanned Leave: Any emergency situation/unforeseen event that compels you to miss work where you are incapable of working due to unavoidable reasons. This can be availed post due approval by supervisor and necessary substantiation. Issues like accidents, bereavement, critical illness or emergency medical reasons may fall in this category. However, these cannot be more than the period of Internship.
- 2. **Casual leaves:** Any other absence/leave should not exceed more than 5 days across your internship duration, taken with prior approval from your reporting manager. In case this absence/leave extends to more than approved casual leaves, discontinuation of internship can occur at the discretion of the company. We expect these leaves to be taken only when essentially needed so as not to interrupt the internship program.

Before embarking on either of these leaves, you are expected to inform your supervisor/ reporting manager and seek their approval. Do keep your Internship Program team informed as well. Please reach out to program owners to seek any clarification on the above.

Stipend Process:

- In order to receive your stipend, you are requested to open an account with any one of these banks: HDFC, Axis, Deutsche, RBS, IndusInd, SBI & Kotak
- Time Report (TR) sheet will be sent to you for updating; this needs to be correctly updated and sent back by 30th of each month
- Any delay or incorrect information provided will lead to a delay in the stipend payment which will then be carried forward for payment in the subsequent month.

Please review these details and confirm acceptance of the same within the next two days.

Looking forward to having you onboard.

Regards, E School Campus Recruitment Team

Full Name:

Date:

Signature:





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International Institute of Information Technology, Hyderabad

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No. of credits recommended: 3 or 4



CERTIFICATE

This is to certify that Miss. DIVI LIKITHA SRI doing MCA from PARVATHANENI BRAHMAYYA SIDDHARTHA COLLEGE OF ARTS AND SCIENCE with Regd.No: 21MCA01 has successfully completed the project titled "HEART DISEASE PREDICTION USING ML" from 10th April 2023 to 19th July 2023 using MACHINE LEARNING Technologies.

The project was completed to our satisfaction and **she** showed keen Interest and was dedicated to the project during above period. We place our Appreciation for **her** best efforts.





Department of Computer Science:: P.B.Siddhartha College of Arts & Science :: Vijayawada Presented Research Articles in Two Day National Seminar on "Recent Trends in Information Communication Technologies 2023" at Krishna University, Machilipatnam 03rd and 04th January 2023

 Dr. T.S.Ravi Kiran, HoD, Department of Computer Science, S.Nagasai Nishmitha from II MCA,G.Priyanka from II MCA presented a research article "Security Threats and Measures to overcome from Security Threats in Superior Cloud" in Two Day National Seminar on "Recent Trends in Information Communication Technologies 2023" at Krishna University, Machilipatnam on 03rd and 04th January 2023.



 Dr.T.S.Ravi Kiran,HoD, Department of Computer Science, Salma Begum II from M.Sc.(Computer Science), Shanti Priya.D from II M.Sc.(Computational Data Science) presented an article "Security Challenges and Measures of IoT Devices and its Networks" in Two Day National Seminar on "Recent Trends in Information and Communication Technologies 2023" at Krishna University, Machilipatnam on 03rd and 04th January 2023.





Security Threats in Superior Cloud in the Two-Day National Seminar on 'RECENT TRENDS IN INFORMATION AND COMMUNICATION TECHNOLOGIES 2023' Organized by Department of Computer Science, Krishna University, Machilipatnam during 3rd & 4th

January 2023.











CERTIFICATE

This is to certify that Brof. / Dr. /Mr./Ms	S. Naga Sai	Nishmitha	of
P.B. Siddhartha College of	Arts & Science	_ College/ U niversi	ty has Participated/
Presented a paper entitled Security	Threats and	Measures to	Oversome
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Organizing Secretary Dr.R.Kiran Kumar







CERTIFICATE OF COMPLETION

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Student Achievement in Student Meet Tech Sparks-2K22, Sri Durga Malleswara Siddhartha Mahila Kalasala, Vijayawada, 1st December 2022

Ch.Hemalatha (21MCA64) of M.C.A Third Semester has secured Third Prize in INSIGNIA (Logo Design) in a **Tech Sparks-2K22**, A State Level Technical organized by Department of Computer.



Ph: 0866-2475966

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Academic Year : 2.22-20 Semester (ODD / EVEN)

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