

Volume 9, Issue 2 (VII)

April – June 2022

ISSN: 2394 – 7780



**International Journal of
Advance and Innovative Research**

Indian Academicians and Researchers Association
www.iaraedu.com

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THE IMPACT OF THE PANDEMIC ON E-BUSINESS & ITS INTERPLAY WITH CYBER-SECURITY USING PYTHON

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ABSTRACT

The impact of Pandemic has been felt in all the countries across the globe. The pandemic has already affected in E-business like E-commerce, e-banking with respect to cyber-attacks, where everyone must take steps to prepare and respond with cyber security.

Cyber security is the technique of protecting computers, networks, programs and data from unauthorized access or attacks that are aimed for exploitation. The objective of cyber security is not only to avoid 100% of the attacks, something unattainable; but to reduce the "attack surface" to a minimal. The number of attack perpetrators will be always bigger than the number of cyber security experts who are trying to protect against attacks. Machine learning (ML) and Artificial Intelligence (AI) are taking cyber security and other tech fields by storm, and you can easily find a great deal of information on the use of Machine learning by both camps—defence and cyber-attacks. Python's simple and clean structure, modular design, and extensive library make it a perfect solution for security applications.

Different difficult algorithms can be easily converted in python programming language. Python is used widely in Artificial Intelligence & Machine learning. Cyber experts depend on the capability to rapidly code programs and the feature set to implement new strategies and techniques. No other language offers as influential combination, and Python stands as the must-know language for the serious security professional.

Keywords: Pandemic, E-business, Cyber security, Python, Artificial Intelligence (AI), Machine Learning (ML)

1. INTRODUCTION

Cyber security refers to a set of techniques used to protect the integrity of networks, programs and data from attack, damage or unauthorized access.

The core functionality of cyber security involves protection of information and systems from major cyber threats.

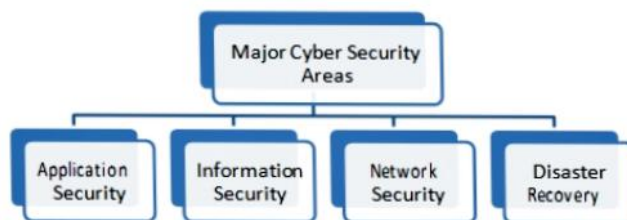


Figure 1

1. **Application Security** encompasses measures or counter-measures that are taken during the development life-cycle to protect applications from threats that can come through flaws in the application design, development, deployment, upgrade or maintenance. Some basic techniques used for application security are:
 - a) Input parameter validation
 - b) User/Role Authentication & Authorization
 - c) Session management, parameter manipulation & exception management
 - d) Auditing and logging etc.
2. **Information Security** protects information from unauthorized access in order to avoid identity theft and to protect privacy. Major techniques used to cover this are:
 - a) Identification, authentication & authorization of user,
 - b) Cryptography