

# MIT Explain the Benefits of Deep Learning in Cyber Security

Deep Learning, Machine Learning and AI are often confused, however can lead to drastic differences especially in Cyber Security. Both ML and DL fall under the AI umbrella however when researching products they can lead to extremely different results.



## What are the Advantages of Deep Learning?

DL trains on 100% of raw data compared to ML typically using 2%. The much higher quantity of data leads to a much greater rate of accuracy and in relation to Cyber Security this means there is a lot lower percentage of false positives and a much greater accuracy when detecting threats.

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## Australian Company Optus Reveals Large Data Breach

There has been reports that Optus has received a data breach where millions of customer's information such as names, dates of birth, phone numbers, email addresses, home addresses, and passport and driver's licence numbers have been stolen.

This means there has been two massive data breaches in short succession in Australia and is likely to lead to a change in legislation to allow information to be shared on what data has been stolen with banks much faster.

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## Why did the developer go broke?

Because they used up all their cache.

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## Nigeria's Cyber Security Problem

It has recently been discovered that some AWS S3 data buckets belonging to a state health agency in Nigeria are unsecured. This data included information such as: addresses, identification documents, photos and names. Despite the knowledge on the unsecure data buckets they still remain unsecure today.

The data could be used maliciously for activities such as identity theft.

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## Course of the Week

Cryptography for Beginners - Coding Tech (YouTube).

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