

# Predicting Network Attack Using UNSW-NB15 Dataset

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## Abstract

## Introduction

The occurrence of cyber security incidents have proliferated in recent years. Almost every year, one or two major information security incidents attract the attention of the world. Numerous studies have already been conducted in the field of cyber security utilizing data mining technologies. Using the UNSW\_NB15 Dataset [1], we will predict the network attack that is happening over the network. This dataset has nine types of attacks, namely, Fuzzers, Analysis, Backdoors, DoS, Exploits, Generic, Reconnaissance, Shellcode and Worms unlike other dataset like KDD-99 dataset which has only four attack types DOS, R2L, U2R, and PROBE.

- [1] N. Moustafa and J. Slay, “UNSW-NB15: A comprehensive data set for network intrusion detection systems (UNSW-NB15 network data set),” in *2015 military communications and information systems conference (MilCIS)*, 2015, pp. 1–6, doi: 10.1109/MilCIS.2015.7348942.

## Methods

## Comparisons

## Example Analysis

## Conclusions

## References