

# **ASSIGNMENT 3**

## **REVISED RESEARCH PROBLEM**

### **1.MAIN RESEARCH SUBJECT AREA:**

Machine Learning and Data Science.

### **2.SUB AREAS:**

- 1.Networking.
- 2.Machine Learning.
- 3.Data Integration.

### **3.OBJECTIVE:**

Detecting intrusions with better accuracy is a nightmare while analyzing vast congested traffic. The objective here is "Analyzing and predicting the traffic of network will improve security".

### **4.PROBLEM DEFINITION:**

The research problem is to present a robust malicious traffic classification system and to make it effective in classifying the malicious traffic. It is very important that the security mechanisms of a system are designed so as to prevent unauthorized access to system resources and data. We try to detect the intrusion attempts so that action may be taken to repair the damage later.

### **5.RESEARCH QUESTIONS:**

- 1) What are the various wireless intrusion detection system that analysis the performance and detection rate available?
- 2) What are the algorithms to analyze the performance and security aspects of the anomaly based networks available?
- 3) What system is used to identify the anomalous attacking ?
- 4) How the system can be prevented by the defined rule?
- 5)What is the impact of Intrusion Detection system on the security and integrity of a system?