**Use of Artificial Neural Networks to Identify Fake Profiles**

**ABSTRACT**

Social media networks make revenues from the data provided by users. The average user does not know that their rights are given up the moment they use the social media network's service. Social media companies have a lot to gain at the expense of the user. Every time a user shares a new location, new photos, likes, dislikes, and tag other users in content posted, Facebook makes revenue via advertisements and data. Social media networks make revenues from the data provided by users. The average user does not know that their rights are given up the moment they use the social media network's service. Social media companies have a lot to gain at the expense of the user. Every time a user shares a new location, new photos, likes, dislikes, and tag other users in content posted, Facebook makes revenue via advertisements and data. In this paper, we use machine learning, namely an artificial neural network to determine what the chances that Facebook friend request is authentic are or not.

**EXISTING SYSTEM**

In today's digital age, the ever-increasing dependency on computer technology has left the average citizen vulnerable to crimes such as data breaches and possible identity theft. These attacks can occur without notice and often without notification to the victims of a data breach.

**Disadvantages of Existing System:**

1. Security is less.
2. Attacks are more.

**PROPOSED SYSTEM**

In this paper, we use machine learning, namely an artificial neural network to determine what are the chances that a friend request is authentic are or not. Each equation at each neuron (node) is put through a Sigmoid function. We use a training data set by Facebook or other social networks

**Advantages:**

1. Security is more.

**SYSTEM REQUIREMENTS**

**HARDWARE REQUIREMENTS**:

Processor - Intel i3 or i4

Speed - 1.1 GHz

RAM - 4 GB (min)

Hard Disk - 500 GB (min)

Key Board - Standard Windows Keyboard

Mouse - Two or Three Button Mouse

Monitor - SVGA

**SOFTWARE REQUIREMENTS:**

Operating System - Windows 10 or above

Programming Language - python