**Mini Project Report on**



**Malware Detection Using Machine Learning**



**Submitted in partial fulfillment of the requirement for the award of the degree of**

**BACHELOR OF TECHNOLOGY**

**IN**

**COMPUTER SCIENCE & ENGINEERING**

**Submitted by:**

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**Department of Computer Science and Engineering**

**Graphic Era (Deemed to be University)**

**Dehradun, Uttarakhand**

**January 2023**



**CANDIDATE’S DECLARATION**

I hereby certify that the work which is being presented in the project report entitled **“Malware detection using machine learning”** in partial fulfillment of the requirements for the award of the Degree of Bachelor of Technology in Computer Science and Engineeringof the Graphic Era (Deemed to be University), Dehradun shall be carried out by the under the mentorship of **Mr.Ramesh Singh Rawat (Assistant professor)**, Department of Computer Science and Engineering, Graphic Era (Deemed to be University), Dehradun.

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Aditya Semwal 2019528

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**Chapter 1**

**Introduction**

* 1. **What is MALWARE?**

Malware is a program designed to gain access to computer systems, normally for the benefit of some third party, without the user’s permission. Malware includes computer viruses, worms, Trojan horses, ransomware, spyware, and other malicious programs.

There are various type types of malware:-

* **Viruses**
* **Worms**
* **Spywares**
* **Trojan Horse**
* **Logic Bomb**
* **Ransomware**
* **Rootkit**
* **Keylogger**

Depending on the type of malware and its goal, the effect can be benign or mild, and sometimes very dangerous or disastrous. Malware is one of the most serious security threats on the Internet nowadays.

**![Graphical user interface, application

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4SlSRXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIzOjAxOjIzIDE2OjA4OjQ0AAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAMwMAAAkpIAAgAAAAMwMAAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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**Fig 1.1 Types of malware**

* 1. **How does MALWARE Infect your computer?**

There are various ways by which your machine can infect by malware but the common method is by misleading users into clicking and installing a malicious program. When the installation is done this malicious program executes actions that the user didn’t intend to do like:-

* Self-replication in different parts of a file system
* Installing programs that analyze your keystrokes and send this data to the person who developed that malware
* Run in the background to slow down or crash a computer
  1. **Problem statement**

As sophisticated malicious programs are increasing day by day to avoid this type of malware attack and data breaches various machine learning models are introduced to detect malicious files in a data

**1.4 Objective**

In this project report, we examine how to apply machine learning algorithms to identify malware in a given sample of files. To validate the malware identification technique through machine learning which can achieve high accuracy with a low false positive rate

This report will present a project that uses machine algorithms to detect malware samples in the data set.

* 1. **Roadmap**

The malware detection project is a great example of how to apply machine learning algorithms to detect malware in a data set. Additionally, the project can be extended and modified in various ways to suit different needs and applications.

Overall this report will provide a comprehensive overview of the project malware detection using machine learning, including the theory, software, and results, as well as potential application and future work

**Chapter 2**

**Literature Survey**

**1.**  [Dragoş Gavriluţ](https://ieeexplore.ieee.org/author/38580278700) ,[Mihai Cimpoeşu](https://ieeexplore.ieee.org/author/37085942974), [Dan Anton](https://ieeexplore.ieee.org/author/37670910600), [Liviu Ciortuz](https://ieeexplore.ieee.org/author/37680009100) “**Malware Detection using Machine Learning**”[research paper]

<https://ieeexplore.ieee.org/document/5352759>

**2.**  Chiheb Chebbi “ **Mastering Machine Learning for Penetration Testing”[**Book**]**

https://www.oreilly.com/library/view/mastering-machine-learning/9781788997409/

**3.** Baset, M. Machine Learning for Malware Detection. Master’s Dissertation, Heriot Watt University, Edinburg, Scotland, December 2016.[Google Scholar]

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**4.** Akhtar, M.S.; Feng, T. Deep learning-based framework for the detection of cyberattack using feature engineering. *Secur. Commun. Netw.* **2021**, *2021*, 6129210.[Google Scholar].

**5.** Nikam, U.V.; Deshmuh, V.M. Performance evaluation of machine learning classifiers in malware detection. In Proceedings of the 2022 IEEE International Conference on Distributed Computing and Electrical Circuits and Electronics (ICDCECE), Ballari, India, 23–24 April 2022[Google Scholar].

https://scholar.google.com/scholar\_lookup?title=Performance+evaluation+of+machine+learning+classifiers+in+malware+detection&conference=Proceedings+of+the+2022+IEEE+International+Conference+on+Distributed+Computing+and+Electrical+Circuits+and+Electronics+(ICDCECE)&author=Nikam,+U.V.&author=Deshmuh,+V.M.&publication\_year=2022&pages=1%E2%80%935&doi=10.1109/ICDCECE53908.2022.9793102**Chapter 3**

**Methodology**

**3.1 Outline of the project**

The idea of machine learning is to let the algorithm analyze and learn by itself the best parameter from the data set to make good predictions. There are many different approaches to training a model to detect malware but in our case, we use RandomforestClassifier and

LogisticRegression from sklearn(machine learning library for python programming language)[1].

**3.2 Projects Functions**

**3.2.1 Initialization**

The dataset is loaded from the file and is saved in memory using a python built-in library

**import pandas as pd**

**import numpy as np**

**import matplotlib.pyplot as plt**

**maldata=pd.read\_csv("MalwareData.csv",sep="|")**

here is the CSV file “MalwareData.csv” created by

**3.2.2 Feature Extraction**

In our dataset since every feature is in numeric form, therefore there is no need for this step.

As machine learning algorithms only work on numeric values so features must be in numeric form.

**3.2.3 Feature Selection**

Since the column “Name” only signifies the name of the file and Column “md5” is the hash value of won’t affect the training model and therefore we can drop them.

**y=maldata['legitimate']**

**maldata=maldata.drop(['legitimate'],axis=1)**

**maldata=maldata.drop(["Name"],axis=1)**

**maldata=maldata.drop(['md5'],axis=1)**

**print("the name and md5 data columns has been removed")**

**3.2.4 Splitting Data**

Here we are splitting our data set into two halves:-

One in x\_train,y\_train which will train our data set to contain 80% of the dataset to train its model.

One in x\_test,y\_test which is 20% of the dataset to perform the model and predict its score and accuracy.

**from sklearn.model\_selection import train\_test\_split**

**x\_train,x\_test,y\_train,y\_test =train\_test\_split(maldata,y, test\_size=0.2)**

**‘**

Graphical user interface, text

Description automatically generated with medium confidence

**Fig 2.1 Original Data**

**Graphical user interface, application

Description automatically generated**

**Fig 2.2 Data after splitting**

* + 1. **Applying the Classification Model**
* **RandomForestClassifier:-** Random Forest Classifier is a managed machine learning algorithm. It is an ensemble method, which combines the prediction of multiple decision trees to improve the model's overall accuracy. The technique works by training a large number of decision trees on a different subset of the data and then averaging the prediction of all the trees to make a final prediction. It works best in unbalanced data.

**Advantages:** A random forest produces good predictions that can be understood easily[2].

**Disadvantages:** When using a random forest, more resources are required for computation[3].

* **Logistic Regression:-** Logistic Regression is a machine-learning algorithm for classification. In this algorithm, the probabilities describing the possible outcomes of a single trial are modeled using logistic regression

**Advantages:** It is a simple yet powerful algorithm that can handle both linear and nonlinear decision boundaries, and it is particularly well-suited for binary classification problems.

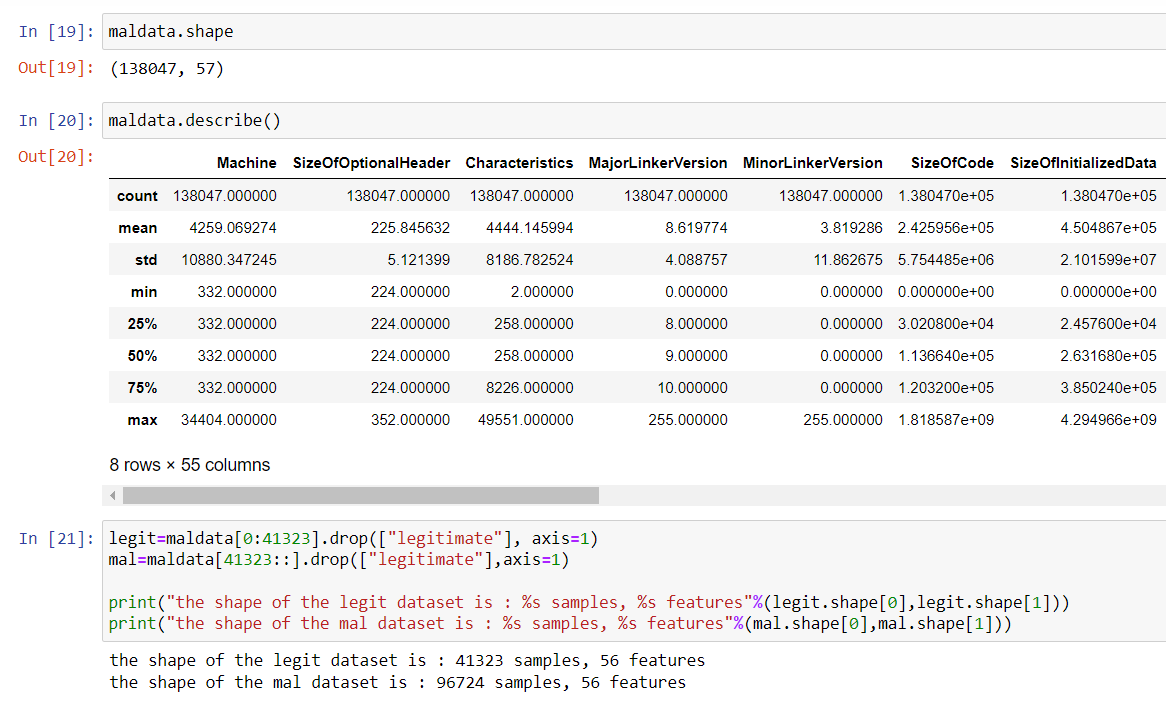
**Disadvantages:** In case of highly unbalanced data it may not perform well as other algorithms such as RandomForest

**Chapter 4**

**Result and Discussion**

The used data set or CSV file has 138047 rows and 57 columns of data in which

43123 are legitimate files and 96724 are malicious files. It is unbalanced data.



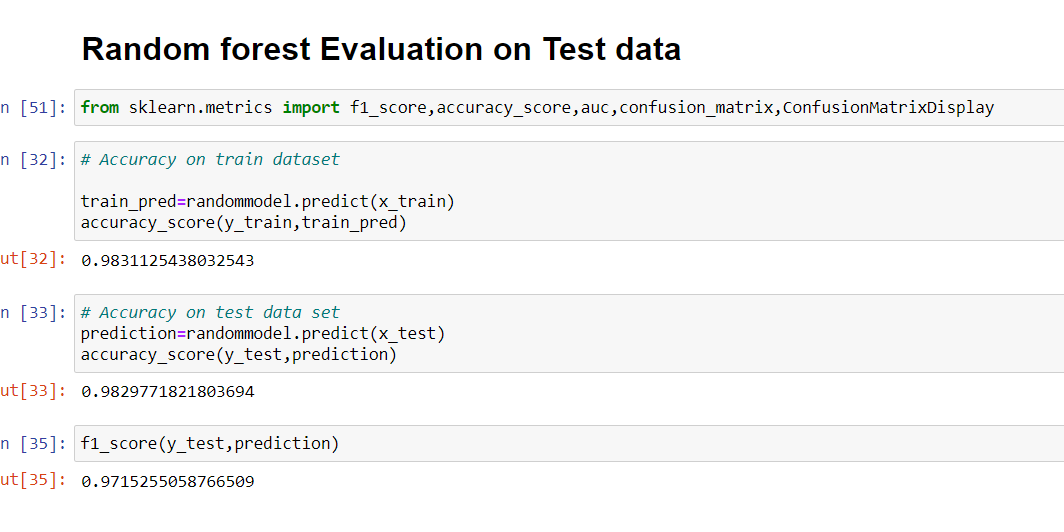
**Fig 4.1 Description of used Data Set**

Chart, histogram

Description automatically generated

**Fig 4.2 Histogram represtaion on data set**

The classification model accuracy result are as follows:-



**Fig 4.3 RandomForest evaluation test result**

This concludes that the random forest classifier algorithm works astonishingly amazing in an Unbalanced type of data set with accuracy on the test of around 99%

Random forest classifier works best in an unbalanced data set.

Graphical user interface, text, application

Description automatically generated

**Fig 4.4 Logistic Regression evaluation result**

Here the accuracy of around 69-70% as Logistic regression won't work well in an unbalanced data set as RandomForest do.

**Chapter 5**

**Conclusion and Future Work**

**5.1 Conclusion:**

Machine learning can be an effective tool for detecting malware. Overall, Ml-based malware detection techniques can achieve high accuracy rates and can adapt to new and evolving malware threats.

Proper technique should be used on a given dataset to achieve high accuracy.

**5.2 Future scope**

The future scope of using machine learning for malware detection is very promising. Machine learning algorithms can be trained on large sets of data to identify patterns making them well-suited for the task of detecting malware.

Additionally, machine learning-based malware detection systems can be continuously updated with new data and improve over time

**5.3 Future Work**

There are several areas of future work in the field of machine learning for malware detection

* **Developing more advanced and accurate machine learning models**: There is ongoing research to improve the performance of machine learning models for malware detection.
* **Creating real-time detection and response machine:** A real-time detection and response system to detect and respond to malware attacks in as close to real-time as possible, which can significantly reduce the damage caused by malware.

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