

Configuration Manual

MSc Research Project
Cyber Security

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MSc Project Submission Sheet



School of Computing

Student Name: Liston Pallippattu Mathai
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Programme: Cyber Security **Year:** 2020-2021
Module: Msc Research Project
Supervisor: Imran Khan
Submission Due Date: 16-August-2021
Project Title: Malware detection on android using Adaboost algorithm

Word Count: **Page Count:**

I hereby certify that the information contained in this (my submission) is information pertaining to research I conducted for this project. All information other than my own contribution will be fully referenced and listed in the relevant bibliography section at the rear of the project.
ALL internet material must be referenced in the bibliography section. Students are required to use the Referencing Standard specified in the report template. To use other author's written or electronic work is illegal (plagiarism) and may result in disciplinary action.

Norman Kolarikkal

Signature:
Date: 16-08-2021

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Malware detection on android using Adaboost algorithm

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1 Introduction

Document discusses how the mobile android malware detection code should be implemented and executed. Work has been coded in Python programming language.

2 System Requirements

Tool: Python IDLE

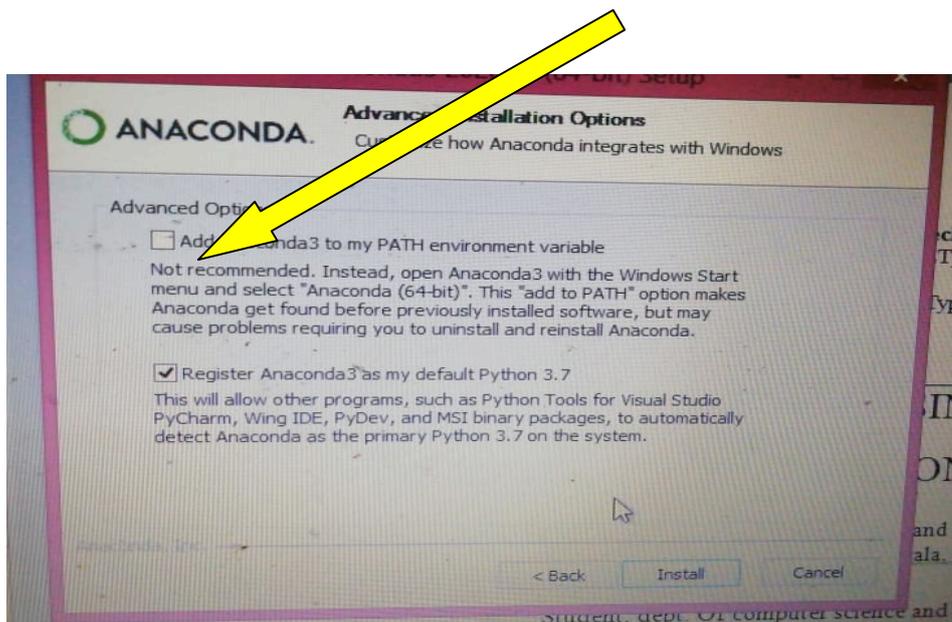
Python: version3

Operating System: Windows 7 or later

Anaconda has been downloaded and installed on the system. It can be downloaded from the official website of Anaconda,

(<https://www.anaconda.com/products/individual>)

At the stage given in the image below check both checkboxes



2.1 Package Details

Various packages and libraries are installed to perform the research they are as follows,

Pandas : Used to read the data set, that is the dataset.

Numpy : Used for array operations

Pickle : Used to save the model

Metrics : calculate and print the accuracy

Selectkbest : Used for the selection of features

3 Setting up the environment

- Extract Android malware full code.zip file
- Extract tf.zip file to location C->users->user(it may be vary based on your system)- >anaconda3->envs
- Open anaconda prompt in the project folder
- Run command : activate tf

4 Data Sources

Dataset used for this research is taken from a public online platform named Kaggle which allow users to access and download different malware data set samples. Data set has been downloaded and added to the submitted Zip file named Derbian.

5 Code Execution

Anaconda prompt has been opened and run the following commands,

- Run command: python training.py || To train the model

