Installation Manual for Malware Classification Model

# Introduction

This document provides step-by-step instructions for setting up and executing the malware classification model using machine learning. The goal is to enable the end user to successfully install all dependencies, run the code, and evaluate the model.

# Installation Steps

## Prerequisites

Before proceeding with the installation, ensure that you have the following installed on your system:  
1. Python 3.7+ (https://www.python.org/downloads/)  
2. pip (Python package installer)

## Step 1: Set Up Virtual Environment

It is recommended to use a virtual environment to manage dependencies for this project. Follow these steps:  
1. Install virtualenv if it's not already installed:   
 `pip install virtualenv`  
2. Create a virtual environment in the project directory:   
 `virtualenv venv`  
3. Activate the virtual environment:   
 - On Windows: `venv\Scripts\activate`  
 - On macOS/Linux: `source venv/bin/activate`

## Step 2: Dataset Setup

Download the dataset from the provided link and place it in the project directory. Ensure the dataset is structured as specified in the project documentation.

## Step 3: Running the Model

To execute the model, run necessary files provided in repo.  
This will start the training and evaluation process. Ensure that the required data files (e.g., CSVs) are in the correct directory before running.

## Troubleshooting

If you encounter any issues during the installation or execution process, try the following steps:  
1. Ensure that all dependencies are installed correctly.  
2. Check if the dataset files are correctly placed in the project directory.  
3. If any error messages occur, research the error and ensure you're using compatible versions of libraries.

## Conclusion

Following the steps outlined in this document should allow you to set up and execute the malware classification model successfully. If you encounter further issues, please consult the documentation or seek assistance.