

In [1]:

```
# This Python 3 environment comes with many helpful analytics libraries installed
# For example, here's several helpful packages to load

import numpy as np # linear algebra
import pandas as pd # data processing, CSV file I/O (e.g. pd.read_csv)

# Input data files are available in the read-only "../input/" directory
# For example, running this (by clicking run or pressing Shift+Enter) will list all files
under the input directory

import os
####Please Ignore #####
#for dirname, _, filenames in os.walk('/kaggle/input'):
#    for filename in filenames:
#        print(os.path.join(dirname, filename))
#####
import matplotlib.pyplot as plt
import seaborn as sns
!pip install keras
```

Requirement already satisfied: keras in /usr/local/lib/python3.7/dist-packages (2.8.0)

In []:

```
#Importing all the required modules
```

In [2]:

```
import matplotlib.pyplot as plt
import datetime
from sklearn.preprocessing import MinMaxScaler
from sklearn.model_selection import train_test_split
from keras import models, layers
```

In []:

```
#Import Dataset
```

In []:

```
#The dataset has been used to develop and evaluate multilevel classifier fusion approach
for
#Android malware detection, published in the IEEE Transactions on Cybernetics paper-
#"DroidFusion: A Novel Multilevel Classifier Fusion Approach for Android Malware Detecti
on".
#The supporting file contains the description of the feature vectors/attributes obtained
via static code
# analysis of the Android apps.
##Reference-Literature URL - https://ieeexplore.ieee.org/document/8245867
#DOI- 10.1109/TCYB.2017.2777960
```

In []:

```
#Drebin Dataset-Number of apps- 15,036;
# Number of benign apps - 9476
# Number of malware apps - 5560
# Number of features- 215
```

In [4]:

```
df=pd.read_csv('/content/dataset-features-categories.csv')
df.head()
```

Out[4]:

	transact	API call signature
0	onServiceConnected	API call signature
1	bindService	API call signature
2	attachInterface	API call signature
3	ServiceConnection	API call signature
4	android.os.Binder	API call signature

In [5]:

```
df1=pd.read_csv('/content/drebin-215-dataset-5560malware-9476-benign.csv.zip')
df1.head()
```

/usr/local/lib/python3.7/dist-packages/IPython/core/interactiveshell.py:2882: DtypeWarning: Columns (92) have mixed types.Specify dtype option on import or set low_memory=False.
exec(code_obj, self.user_global_ns, self.user_ns)

Out[5]:

	transact	onServiceConnected	bindService	attachInterface	ServiceConnection	android.os.Binder	SEND_SMS	Ljava.lang.C
0	0	0	0	0	0	0	1	
1	0	0	0	0	0	0	1	
2	0	0	0	0	0	0	1	
3	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	

5 rows x 216 columns



In []:

```
#Printing the shape of dataset
```

In [6]:

```
print(df.shape)
print(df1.shape)
```

```
(215, 2)
(15036, 216)
```

In [7]:

```
print(df.isnull().sum())
print(df1.isnull().sum())
```

```
transact          0
API call signature 0
dtype: int64
transact          0
onServiceConnected 0
bindService       0
attachInterface   0
ServiceConnection 0
..
ACCESS_FINE_LOCATION 0
SET_WALLPAPER_HINTS  0
SET_PREFERRED_APPLICATIONS 0
WRITE_SECURE_SETTINGS 0
class              0
Length: 216, dtype: int64
```

In []:

```
#Handling DF1 values with Nan
```

In []:

```
# A Quick reveiw on Missing Values
#1.How is Missing Value Represented In The Dataset- In the dataset, blank shows the missing values.
# In Pandas, usually, missing values are represented by NaN.
# It stands for Not a Number.
#2.Why Is Data Missing From The Dataset-
# Some of the reasons are listed below:
#Past data might get corrupted due to improper maintenance.
#Observations are not recorded for certain fields due to some reasons.
#There might be a failure in recording the values due to human error.
#The user has not provided the values intentionally.
#3.Why Do We Need To Care About Handling Missing Value?-
# Missing data can lead to a lack of precision in the statistical analysis.
# Referred From- https://www.analyticsvidhya.com/blog/2021/10/handling-missing-value/#h2\_7
```

In [8]:

```
## Lets first handle numerical features with nan value
numerical_nan = [feature for feature in df1.columns if df1[feature].isna().sum()>1 and df1[feature].dtypes!='O']
numerical_nan
## categorical features with missing values
categorical_nan = [feature for feature in df1.columns if df1[feature].isna().sum()>0 and df1[feature].dtypes=='O']
print(categorical_nan)
```

[]

In []:

```
# Encoding Techiques two types:
#1.Dummy Encoding
#2.One Hot Encoding

#get_dummies() is used for data manipulation.
#It converts categorical data into dummy or indicator variables
#example- Let
# s = pd.Series(list('pqrp'))
# pd.get_dummies(s)
#    p q r
# 0 1 0 0
# 1 0 1 0
# 2 0 0 1
# 3 1 0 0
# Ref:https://pandas.pydata.org/docs/reference/api/pandas.get\_dummies.html
# Advantages of dummy encoding over One hot Encoding:
#Both expand the feature space (dimensionality) in your dataset by adding dummy variables
# However, dummy encoding adds fewer dummy variables than one-hot encoding does.
#Dummy encoding removes a duplicate category in each categorical variable.
#This avoids the dummy variable trap.
# Ref: https://towardsdatascience.com/encoding-categorical-variables-one-hot-vs-dummy-encoding-6d5b9c46e2db
```

In [9]:

```
df1 = pd.get_dummies(df1)
```

In []:

```
#len()-The number of rows of DataFrame can be obtained with the Python built-in function len()
#We predict 1 data by using 50 datas
# 216 are the number of columns in df1

#LSTM MODEL REFERED FROM-"https://www.kaggle.com/code/jeongbinpark/lstm-can-we-predict-the-bitcoin-price/notebook"
```

In [10]:

```
X_1 = []
y_1 = []
N = len(df1)
D = 50
for i in range(N-D-216):
    X_1.append(df1.iloc[i:i+D])
    y_1.append(df1.iloc[i+D])
X = np.array(X_1)
y = np.array(y_1)
print(X.shape, y.shape)
```

```
(14770, 50, 221) (14770, 221)
```

In [11]:

```
#Split dataset into train and test sets
X_train, X_test, y_train, y_test = train_test_split(X,y, test_size=0.2, random_state= 10
0)
```

In []:

```
#layers.Dense(221) It's due to (14770, 50, 221)
#The first argument (adam) is the optimizer, the second argument (categorical_crossentropy)
# is the model loss,
# the last argument (Accuracy) is model metrics.
```

In []:

```
#A Quick reveiw on RNN
# Recurrent neural network (RNN) is similar type of
#feed-forward network (FFN) with an additional selfrecurrent connection that
#carries out the information from one time-step to the others [30]. Moreover,
#computational unit of RNN (Fig. 1) remains same as FFN
#except the connections among neurons in RNN architecture are entirely different. They are
connectionist
#model that have capability to learn dynamic temporal patterns in sequences of arbitrary
length. RNN
#remained as a baseline approach towards the many
#recent RNN variants model in deep learning.
```

In []:

```
# A quick reveiw on LSTM
#Long short-term memory (LSTM) is a modified network of RNN proposed to learn long-range
#dependencies across time-varying patterns. Generally, LSTM is a second order recurrent n
eural network
#that solves the vanishing and exploding gradients
#issue by replacing RNN simple units with the memory blocks in recurrent hidden layer. A
memory block
#is a complex processing unit in LSTM with many units. It is composed of one or many memo
ry cell, adaptive multiplicative gating units (input,
# output and forget) and a self-recurrent connection
# with a fixed weight 1.0. It serves as a short-term
#memory with a control from adaptive multiplicative
#gating units. The input and output flow of a cell activation of a memory cell is control
led by input and
#output gate respectively. Forget gate was included
#in memory cell that helps to forget or reset
#their previous state information, when it is inappropriate. Moreover, peephole connectio
ns between
#cells to all of its adaptive multiplicative gates control
#the precise timing of outputs including the internal
#states .
#Ref- From Paper -"Detecting Android malware using Long Short-term Memory (LSTM)"
```

In [12]:

```
# Make LSTM Model
m_x = layers.Input(shape = X_train.shape[1:])
```

```
m_h = layers.LSTM(10)(m_x)
m_y = layers.Dense(221)(m_h)
m = models.Model(m_x,m_y)
m.compile('adam','categorical_crossentropy','Accuracy')
m.summary()
```

Model: "model"

Layer (type)	Output Shape	Param #
input_1 (InputLayer)	[(None, 50, 221)]	0
lstm (LSTM)	(None, 10)	9280
dense (Dense)	(None, 221)	2431
Total params: 11,711		
Trainable params: 11,711		
Non-trainable params: 0		

In [13]:

```
#Fit and Evaluate The Model
history = m.fit(X_train, y_train, epochs=20, validation_data=(X_test, y_test),verbose=0)
```

In []:

```
#Predict for fututre Malwares
```

In [14]:

```
predictions=[]
pr = m.predict(np.array(df1.iloc[-50:]).reshape(1,50,221))
predictions.append(pr[0])
for i in range(1,50):
    pr = m.predict(np.concatenate((np.array(df1[-50+i:]), predictions[:]), axis=0).reshape(1,50,221))
    predictions.append(pr[0])
for i in range(0,250):
    pr = m.predict(np.concatenate(predictions[i:],axis=0).reshape(-1,50,221))
    predictions.append(pr[0])
print(predictions)
```

```
[array([-0.2216027 , -0.2714069 ,  0.27649155, -0.20973179, -0.2499271 ,
        0.22122338,  0.18950105, -0.17340368, -0.24918394, -0.17976387,
       -0.20707561,  0.21909222,  0.21587285,  0.21316084,  0.16560265,
       -0.24283023,  0.20559815, -0.19713733, -0.22621118,  0.26038387,
       -0.14798534, -0.23977074, -0.16152613, -0.24682349,  0.22297166,
       -0.33725554, -0.21179375,  0.22945617,  0.3286973 ,  0.20027159,
        0.16110687, -0.20040224, -0.21484666, -0.24529697,  0.3285841 ,
       -0.18447888,  0.13941367,  0.28236255, -0.13815933,  0.1275395 ,
        0.10153098,  0.10498592, -0.36794424, -0.32005876, -0.21234956,
        0.20066832, -0.19544815,  0.20585454, -0.23822194,  0.14692667,
        0.24466765,  0.2294189 ,  0.22426873, -0.161145 ,  0.23360172,
       -0.19533063, -0.2167348 , -0.35056025, -0.2950338 ,  0.14522237,
        0.09653813,  0.26469567, -0.2904195 ,  0.19520147,  0.133441 ,
        0.1175799 ,  0.0986228 ,  0.17969856,  0.27674803,  0.1582691 ,
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       -0.16871852, -0.33218718,  0.19683006,  0.21793105, -0.13083601,
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       -0.16134708,  0.3624491 , -0.0891642 ,  0.13942918,  0.3562882 ,
        0.1422567 , -0.16596127, -0.11845438, -0.47825155, -0.19226636,
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       -0.14758326, -0.20770878,  0.29767126,  0.19216537,  0.22761136,
       -0.18159148,  0.10992633, -0.24898513, -0.30659285, -0.08112726,
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```

```
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```

```
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