NLP (CSCE-689) - REPORT (Programming Assignment #1)

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1. Compile and Execution

I have used python 3.6. Follow the below Steps -

- 1. Unzip the file.
- 2. cd into this folder
- 3. python SpamLord.py data_dev/dev/ data_dev/devGOLD
- 4. Output will get printed on the terminal
- 5. Output 3 categories
 - a. True Positive
 - b. False Positive
 - c. False Negative
 - d. Summary

2. Results and Analysis

True Positives (59):

dabo p 650-725-3897

levoy p 650-725-4089

latombe e liliana@cs.stanford.edu

kosecka e kosecka@cs.gmu.edu

ashishg p 650-814-1478

bgirod p 650-723-4539

eroberts e eroberts@cs.stanford.edu

engler e engler@stanford.edu

hanrahan e hanrahan@cs.stanford.edu

hanrahan p 650-723-0033

horowitz p 650-725-3707

cheriton p 650-725-3726

cheriton p 650-723-1131

kunle e darlene@csl.stanford.edu

cheriton e cheriton@cs.stanford.edu

ashishg e rozm@stanford.edu

kunle p 650-725-6949

hager p 410-516-8000

lam p 650-725-6949

hager p 410-516-5553

dlwh e dlwh@stanford.edu

bgirod p 650-724-3648

ashishg p 650-723-1614

cheriton e uma@cs.stanford.edu

bgirod p 650-724-6354

jks e jks@robotics.stanford.edu

lam e lam@cs.stanford.edu

eroberts p 650-723-3642

lam p 650-725-3714

kosecka p 703-993-1876

ashishg e ashishg@stanford.edu

levoy e melissa@graphics.stanford.edu

kunle p 650-723-1430

eroberts p 650-723-6092

fedkiw e fedkiw@cs.stanford.edu

hager e hager@cs.jhu.edu

engler e engler@lcs.mit.edu

ashishg p 650-723-4173

dabo p 650-725-4671 levoy p 650-723-0033 dabo e dabo@cs.stanford.edu levoy p 650-724-6865 hager p 410-516-5521 hanrahan p 650-723-8530 latombe p 650-723-4137 kosecka p 703-993-1710 balaji e balaji@stanford.edu latombe p 650-723-0350 latombe e asandra@cs.stanford.edu kunle e kunle@ogun.stanford.edu jurafsky e jurafsky@stanford.edu horowitz p 650-725-6949 levoy e ada@graphics.stanford.edu latombe p 650-721-6625 latombe e latombe@cs.stanford.edu jurafsky p 650-723-5666 kunle p 650-725-3713 latombe p 650-725-1449 levoy p 650-725-3724

False Positives (0):
False Negatives (0):
Summary: tp=59, fp=0, fn=0
Analysis True Positive - 59
False Positive - 0

False Negative - 0

3. Limitations for this program -

The assumptions that were made according to the training data may produce false positives and may fail to get correct Results in some scenario's like below:

- A. It assumes a certain ordering in the format of phone numbers (specific to North America) and thus the SpamLord is not scalable.
- B. If a line contains both Server and Port, that is where the address of a router or a machine is specified instead of email id, I have marked the detection as farce and skipped it. It may be that a real email is there and thus the SpamLord will leave a true positive.
- C. For the part where email id is passed as parameters to the obfuscate function, a pattern in the function prototype was assumed. If it's changed or more parameters are passed, the SpamLord may give false positive and fail to find out the correct one.

Thank you so much