SPAM MESSAGE DETECTOR
API DOCUMENTATION

CONTENTS

OVERVIEW
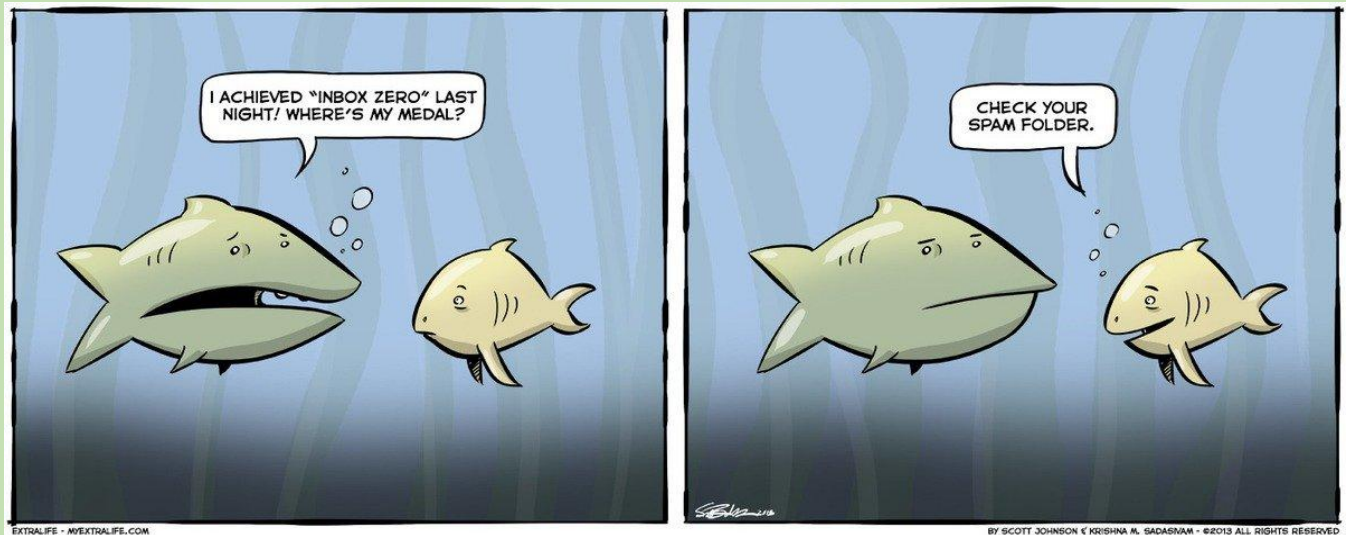
The invention and growth of technology had introduced so much innovation in the development of the society by making things thought to be impossible 50 years ago a commonplace thing, such as transportation, healthcare, communication among other contributions. In the field of telecommunication, several years back, the volume of messages are quite a few but right now people receive messages almost every minute, of which, some are meant to deceive the recipient. This led to the development of spam box in mail box of communication service providers such as yahoo mail, google mail etc.

The innovation is still undergoing development, of which this project is going to serve as reference for future development in that regard.

The spam API is a machine learning solution that can classify if a text is spam or not.

TUTORIAL

Basic library to access this API is the requests and below are some examples of how to make call to the API via this website (https://immense-island-47451.herokuapp.com/)

```python
#import Library
import requests

base_url = "https://immense-island-47451.herokuapp.com/"
data = {"text" : "today is a good day to code"}
response = requests.get(base_url, json=data)
response.json()
```

```
{'confidence level': 0.939, 'prediction': 'The text is Not a Spam'}
```

Breakdown of the codes

The API is hosted on heroku with the website address above, the connection requests needs to be in JSON format, which is the content type implemented for the API.

Currently, any other content type will return a 400 error (wrong content type message).

The data variable should contain a dictionary (key, value pair) where the key is the keyword TEXT and the value is the text that wants to be checked for spam.

Using the requests library, there is a need to specify the json=data (or any other variable name used) before sending the requests.

After a successful connection, the response result needs to be unpacked using .json() call which formats the result in json format. One can also use .content or .text to also get the values. (examples below)

```
response.content
```

```
b'{"confidence level":0.939,"prediction":"The text is Not a Spam"}\n'
```

```
response.text
```

```
'{"confidence level":0.939,"prediction":"The text is Not a Spam"}\n'
```

EXAMPLES:
More result examples using 4 random text from a fake job alert dataset (taking from the spam test notebook in the repo)

Text	Prediction	Confidence level
Dear Candidate,Sequel to your application, you are invited to interview for the role of a Loan Officer.Venue: Doheney Services Ltd., 55, Coker Road, Ilupeju, LagosDate: Tuesday, 10th April, 2018 Time: 10:00amKindly respond to confirm your availability.Regards, Oyinkansola DaramolaRecruitment Analyst.+234 813 460 2626odaramola@doheneyservices.com 55, Coker Road, Ilupeju, Lagos	The text is a Spam	1.0
Dear Candidate, We were impressed by your background, skills, experience and have just been recommended to have an aptitude and interview session with the Human Capital Management team of DPP- Resources. Date: THURSDAY 25 OCTOBER, 2018. Time: 9 am prompt Venue: Number 2, Akin Osiyemi street, Opposite Sterling bank/Canon, Mr Biggs B/stop, Allen Avenue, Ikeja. We look forward to meeting you and having a good working relationship with you in our team.	The text is a Spam	1.0
Dear applicant Congratulations.You have been shortlisted for an oral interview in one of our consulting firm as a customer service officer.Successful candidates are always better than unsuccessful ones. To aid entry into the venue,printout this email Your specific entry details are as below Venue:End of Adeniyi jones,last floor University Press Building,Acme Ikeja. 10:00AM 9/11/2018 Note:Dress corporately and be sure to come early as lateness will not be welcomed,come with your Updated Cv,a passport photograph Regards Career Tips	The text is a Spam	1.0
Sequel to your application received via our online advertorial page, your details as been screened and it interests our organization. In view of that, you have been shortlisted for an interview, it would be conducted in Two phases, Oral and Essay. Kindly find the details below. Date Tuesday, 10th April, 2018Time -8:30am promptVenue-The Zonal Office, B&S Consulting Group, Suite 4A, Ogungbeye str, Off Amaraolu, Opposite Zenith Bank, Agidingbi-1st gate, Ikeja, Lagos. B&S Consulting Group is a fast growing business strategy and human capacity development outfit: Provides customized solutions for the formulation and implementation of business strategiesYou are required to come with a hard copy of your Resume and 2 passport photographs. Dress appropriately and be punctual. You will be meeting with the Executive boardWe apologize for the short notice; however it is important you confirm your availability. Kindly do that by replying this email as soon as possible. For more details reach call79 on 08184429919Best RegardsFor: The Human Resource Team	The text is a Spam	1.0