**Introduction:**

I am M.K.S.Prahlad, currently working as an SDE in Accolite from Hyderabad. I have recently completed my B. Tech final year in CVR College of Engineering, Hyd with my majors in Computer Science. I have my keen interests in Application Development, Data Science, Mathematics and AWS. I am proficient in Data Science, Android Development, Python, Data Mining, SQL, Java, Excel.

**Problem Statement:**

Scenario -1: As part of the solution to this problem statement, 1) Create a mock email server 2) Create an algorithm to monitoring and analyse the incoming/outgoing emails. Raise a flag for the user to shift the behaviour that will help in reducing the carbon footprints generated through emails

**Proposed Solution:**

As the Scenario one specifies of raising a flag or indicating the incoming/outgoing mails possessing the carbon footprints through the algorithm. So, the first step is to classify whether an email is carbon free or not, in this case Natural Language Processing intelligent models helps in determining whether an email is safe or not. To achieve this, the primary step is to train the statistical model in a robust manner with enough amount of data. The following step is to test the model with their metrics and measure the performance of the intelligent model. After satisfactory results, the model is deployed onto to a python script which indeed tracks the emails to a certain user’s inbox. So, each email message and subject are tested with the model which raises a flag if that email is causing to a carbon footprint. In this way from a solution standpoint the indication/intimation off carbon footprints can be made easily and understandable manner.

**Differentiator:**

The novelty of solution proposed is a robust intelligent algorithm with an accuracy score of 90% in classifying the emails into carbon free or not. The other factor is the user can check the carbon footprint from to a specific mail id like a search engine in gmail application and raises a flag accordingly. In this work, the application is independent of creating a mock email server, it uses the Simple Mail Transfer Protocol libraries to login into an account and track the mailbox.

Do you have a prototype code to show: Yes

Youtube Prototype Video link: <https://youtu.be/g4U0mzmcH0Q>