**Machine Learning Project**

**Phase-0**

**Motivation:**

**In our day-to-day life, Spam Emails are considered to be annoying and repetitive, which is solely send for the purpose of advertisement and brand promotion.**

**Although we block such emails, it is of no use as spam emails are still prevalent. Thus, we need to built a robust real-time email spam classifier that can efficiently and correctly flag the incoming mail spam, as either a spam or ham(non – spam) email.**

**Benefits of Solution:**

**Spam emails cause a great risk to the security of the system. These emails can be carriers of dangerous computer viruses. Just in a click on a wrong email can deliberate your network. Hackers also gain access to the system by using a benign looking email.**

**Apart from the security, Spam Filtering saves a lot of time. Users do not have to go through all the emails to decide which ones are spams. This time saved can be used to increase production.**

**Solution Use**

**Email Service Providers like Google, Yahoo etc provides spam detection utilities. But they are still in the infancy stage and require regular feedback from end-users.**

**Private companies, who have their own email servers, want their data to be more secure. In such cases, email spam classification solutions can be provided to them. Also, employees of the company need not go through each and every email, and can sort out the spam emails from the list. Thus, the time saved can be used to increase productivity.**