

# Machine Learning-Based Email Spam Filtering

**Narendra Kumar Sahu and Wasim Khan**

Government Women's Polytechnic College, Indore

Oriental University, Indore

naru\_sahu@yahoo.com and wasukhan1982@gmail.com

**Abstract:** *Email spam, sometimes referred to as garbage email (unwanted email "more often than not of a business nature conveyed in mass"), is one of the real issues with today's Internet. It can cause financial harm to organizations and anger individual customers. Among all the methods created to stop spam, separation is an essential and well-known method. Two frequent uses for mail channels are the sorting of incoming emails and the removal of spam and computer malware. A less prevalent usage is evaluating employees' current email to ensure they are following applicable laws at particular companies. Additionally, clients can use a mail channel to arrange messages according to subject matter or other parameters, and then sort them into envelopes. The client has the option to introduce mail channels as standalone projects or as a part of their email program (email customer). Email clients have the option to create custom "manual" channels that automatically route mail based on selected criteria. In this work, we present a summary of the application of frequently used machine learning techniques to spam classification. Nowadays, the majority of email projects now include built-in spam separation functionality.*

**Keywords:** E-mail classification, Spam, Spam filtering, Machine learning, algorithms.