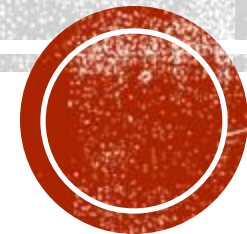


BUILDING A SMARTER AI-POWERED SPAM CLASSIFIER



INTRODUCTION:

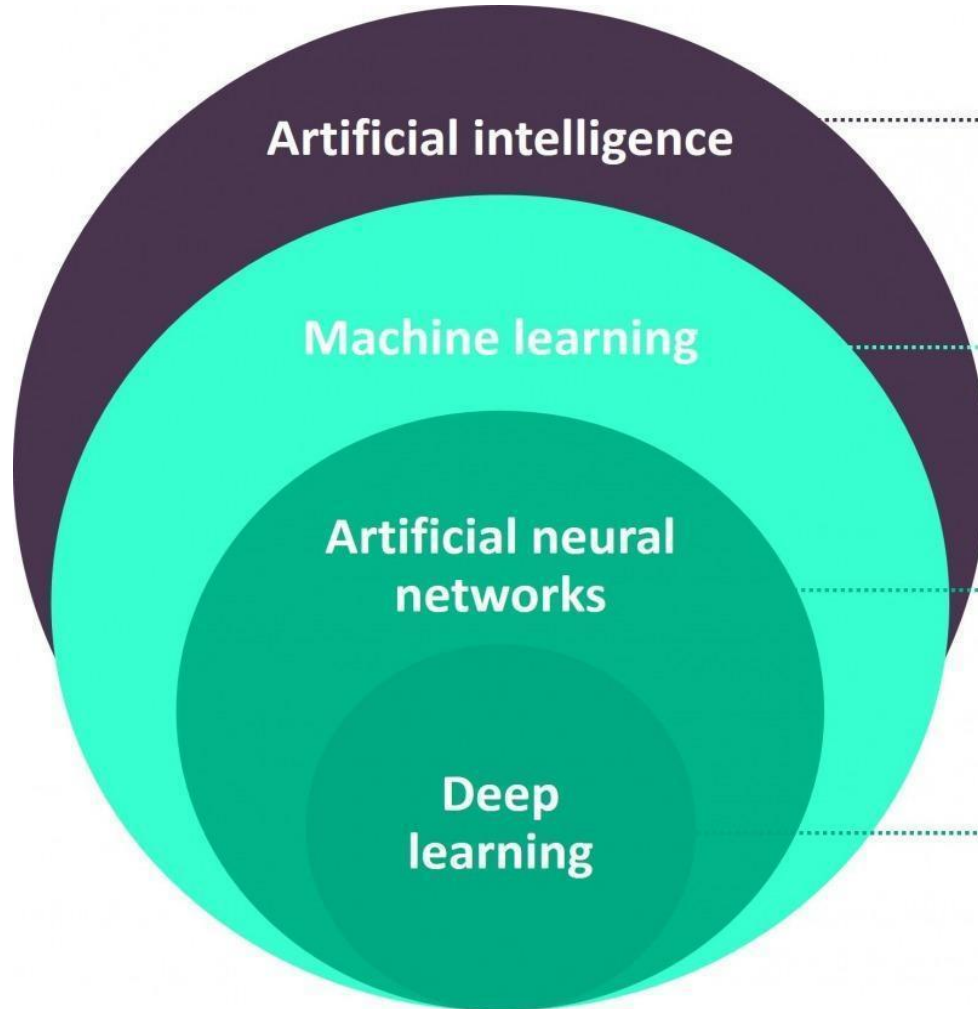
- **Spam is any irrelevant and unwanted message or email sent by the attacker to a significant number of recipients by using emails or any other medium of information sharing.**
- **So, it requires an immense demand for the security of the email system.**
- **Attackers mostly use this technique for luring users towards online services.**



ABSTRACT:

Now a days, email are used in almost every field, from business to education. Emails have two subcategories, i.e., ham and spam. Email spam, also called junk emails or unwanted emails, is a type of email that can be used to harm any user by wasting his/her time, computing resources, and stealing valuable information. The ratio of spam emails is increasing rapidly day by day. Spam detection and filtration are significant and enormous problems for email. Among all,these techniques are developed for detecting and preventing spam, filtering email is one of the most essential and prominent approaches.





Artificial intelligence (AI)

Any techniques that enable machines to solve a task in a way like humans do

Machine learning (ML)

Algorithms that allow computers to learn from examples without being explicitly programmed

Artificial neural networks (ANN)

Brain-inspired machine learning models

Deep learning (DL)

A subset of ML which uses deep artificial neural networks as models and automatically builds a hierarchy of data representations



THE EXISTING MODEL OF THE SYSTEM:-

- **Spam refers to the term, which is related to undesired content with low-quality information, Spam referred to the major drawback of mobile business. When comes to spam detection in the campus network they did the analysis using Incremental Learning. For Collecting Spam detection on web pages. Moreover Sending out a Spam message was also analyzed. Data Collection was done privately by a limited company. From the data Collection. There also anti-spam filter system was evolved. Many parallel and distributed computing system has also processed this spam system. Machine learning algorithm provides accurate result. Text Mining analysis done separates ham and spam separately.**



PROPOSED MODEL OF THE SYSTEM:-

- As we look at spam detection systems that use Machine Learning (ML) techniques, it's vital to take a look at the history of ML in the field as well as the many methods that are now used to identify spam. Researchers have discovered that the content of spam emails, as well as their operational procedures, evolve with time. As a result, the tactics that are currently effective may become obsolete in the near future. The conceptual drift is a term used to describe this occurrence. Machine Learning is an engineering approach that allows computational instruments to behave without being explicitly programmed. Because of the ML system's ability to evolve, limiting concept drift, this strategy is a significant help in detecting and combating spam.



CONCLUSION:-

- Spam mails are a serious concern to and a major annoyance for many internet users thereby spam detection using machine learning offers a promising solution to the pervasive problem of unwanted and harmful emails.



THANK YOU

