

G.PULLA REDDY ENGINEERING COLLEGE (AUTONOMOUS)

DEPARTMENT OF CSE

MAJOR PROJECT

BATCH - 5

EMAIL SPAM DETECTION

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ABSTRACT:

Email is obviously important for many types of group communication and is being widely used by millions of individuals and organizations. At the same time Email has become prone to threats. The most popular form of threats is spam, also known as unsolicited bulk email or junk email. Email Spam has become a major problem nowadays. With rapid growth of internet users, Email spams are also increasing. People are using them for illegal and unethical conducts, phishing and fraud. Sending malicious link through spam emails can harm the system. So, it is needed to Identify those spam mails which are fraud.

Our project aims at utilizing Recurrent Neural Network (RNN) and Long Short Term Memory (LSTM) using Keras models and Tensorflow to detect Spam and Ham from `SpamHam' dataset available at Kaggle repository. Certain preprocessing such Tokenization and stop word removal will be done to drop out any redundant data. The email messages are identified as spam or legitimate based on the subject and content of the email messages. At the end the performance of the model is also evaluated.